

CHIGNIK MANAGEMENT AREA
ANNUAL FINFISH MANAGEMENT REPORT
1995

By

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and

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CHIGNIK SALMON FISHERIES

Introduction

The Chignik Management Area (CMA) includes all coastal waters and inland drainages of the northwest Gulf of Alaska between Kilokak Rocks and Kupreanof Point on the Alaska Peninsula (Figure 1). The CMA is bordered by the Alaska Peninsula Management Area to the west and the Kodiak Management Area to the east. The CMA includes over 100 salmon producing streams; the Chignik River system being the largest producer (Figure 2).

The CMA is divided from east to west into five districts, the Eastern, Central, Chignik Bay, Western, and Perryville Districts (Figures 3-4). Within the CMA commercial and subsistence salmon are the economic mainstay for five villages: Chignik Lake, Chignik Lagoon, Chignik Bay, Perryville, and Ivanof Bay (Figure 3). Although permit holders and crew members reside in all the villages, shoreside processing is located only in the City of Chignik.

Purse seines are the only legal commercial salmon gear type allowed within the CMA. In 1995, a total of 100 limited entry salmon permits were actively fished in the CMA (Table 1) with 80% of the permit holders claiming Alaska residency (Table 2).

Five species of Pacific salmon are commercially harvested: chinook *Oncorhynchus tshawytscha*, sockeye *O. nerka*, pink *O. gorbuscha*, chum *O. keta*, and coho *O. kisutch* salmon. The Alaska Department of Fish and Game (ADF&G), Commercial Fisheries Management and Development Division (CFM&DD), manages the CMA salmon commercial fisheries to achieve biological escapement goals (BEG's) by species while allowing for an orderly harvest of surplus salmon.

This annual report adds to a report series dating back to 1922 and utilizes historic electronic databases post 1970. Disparities between previously reported catch and escapement statistics and those presented here can be attributed to the editorial objective of providing the most accurate information available.

Overview of the 1995 Salmon Season

Unlike 1993 and 1994, no strike occurred in the CMA during 1995. The 1995 commercial season was characterized by the high number of fishing days with the fishery open almost continuously from mid July through August (Tables 3-5). Salmon were delivered 10 days in June, 23 days in July, 28 days in August, and 12 days in September. Seiners were put on limits by area processors when freezing capacity for pink salmon was exceeded. The season closed on September 16 when the processors quit buying salmon due to poor market conditions.

The Chignik weir was operational from June 1 until August 24, the latest date that salmon have been counted since the late 1950s. Although this is the second year of using the underwater video cameras and taping system, better placement within the river, and an additional video camera system has improved the use of this new technology. Confidence in speciation was gained in separating coho, chinook, pink, and chum salmon from sockeye salmon.

The total 1995 commercial salmon harvest (all species) in the CMA of 4.4 million salmon (Tables 3-6), processed by ten companies (Table 7), was approximately 1.6 million fish more than the 1986-1994 average catch of 2.8 million fish (Table 8 and Figure 5). The sockeye salmon run (catch and escapement) of 2.9 million was smaller to Black Lake (1.0 million) than to Chignik Lake (1.9 million).

Salmon caught during 1995 ranked high relative to catches from 1960-1995. Ranking 1995 catches by species relative to those caught from 1960-1995 are as follows: the 1995 chinook salmon catch was the sixth highest, the 1995 sockeye salmon catch was the eighth highest, the 1995 coho salmon catch was the fourth highest, the 1995 pink salmon catch was the second highest, and 1995 chum salmon catch was the fifth highest (Table 8).

Catches for all species (except chinook) were above the 1985-1994 averages. Comparing 1995 catches by species to the average catch from 1985-1994 are as follows: the 1995 chinook salmon catch of 5,261 was 1,313 lower than the 1985-1994 average of 6,574 fish, the 1995 sockeye salmon catch of 1,724,045 was 223,541 higher than the 1985-1994 average of 1,500,504 fish, the 1995 coho salmon catch of 280,605 was 83,580 higher than the 1985-1994 average of 197,025 fish, the 1995 pink salmon catch of 2,057,998 was 1,114,829 higher than the 1985-1994 average of 943,169 fish, the 1995 chum salmon catch of 380,949 was 211,051 higher than the 1985-1994 average of 211,051 fish.

Actual catches were higher than the forecast for coho salmon (40% higher), pink salmon (87% higher), and chum salmon (59% higher). Chinook salmon was lower than the forecast (25% lower) while the sockeye catch approximated the overall forecast of 1.7 million for the Chignik Area (Appendix A.1-A.2).

Total 1995 salmon escapement in the CMA was estimated at 4,549,332 fish (Table 9). Escapement, primarily for chinook and sockeye salmon, was estimated on the Chignik River by weir counts (Table 10-11). Chinook escapement was 4,288 to the Chignik River, 2,838 fish above the established BEG of 1,450. Sockeye escapement to the Chignik Lakes' System was 739,920 fish, 89,920 over the BEG of 650,000 established from June 1 through August 31 (Table 11). Since the Chignik weir was operational until August 24, pink (1,127) and coho (874) escapement was also estimated for that time period above the weir to the Chignik River (Table 12). All other pink, chum, and coho escapement estimates were assessed by aerial survey (Table 9). The 1995 pink salmon escapement of 3,432,008 was the largest since 1960. Chum escapement of 347,838 was the seventh highest since 1960 and above average for most major streams.

The exvessel value of the 1995 commercial salmon harvest was \$14.5 million dollars, about \$2.5 million dollars less than the 1985-94 average exvessel value of \$16.9 million dollars (Table 13 and Figures 6-7). The average value per permit holder was approximately \$145 thousand dollars.

Chinook Salmon

Background

The CMA chinook salmon catch is limited primarily to the Chignik Bay District, and the escapement is limited primarily to the Chignik River system (Table 3, 9). The Chignik River is the largest chinook salmon system on the south side of the Alaska Peninsula (Figure 2). There is no directed chinook

salmon fishery within the CMA, but harvests peak in July as fishers catch chinook salmon incidental to the target species, sockeye salmon.

Chinook salmon runs (catch and escapement) have ranged from a low of 927 fish in 1974 to a high of 21,461 fish in 1993 (Table 14 and Figure 8). Commercial catches have increased from an average of 1,067 fish (1966-1975) to 6,911 fish (1986-1995) (Table 8). A corresponding increase in escapement has also occurred within the past ten years from an average of 1,229 fish (1966-1975) to 3,639 fish (1986-1995) (Table 14).

A brood table, based only on a few years of age class data from small sample sizes, has been used to establish an initial BEG of 1,450 fish. To ensure the BEG, the management goal of 1,950 fish must be achieved which apportions 1,450 fish for spawning and 500 to the sport fishery.

1995 Forecast

The chinook harvest forecast of 7,000 fish approximates a 10-year catch average. The chinook harvest is also dependent upon the amount of fishing time allowed in July to harvest sockeye salmon.

1995 Management and Harvests

The CMA chinook salmon harvest of 5,261 fish was the sixth highest since 1960 and 1,313 fish less than the 1986-1994 average of 6,574 (Table 14 and Figure 8). The harvest occurred from June 11 to September 10 with a peak harvest of 671 on July 3 (Table 4).

The 1995 chinook salmon escapement of approximately 4,288 fish was approximately 764 fish more than the 1985-1994 average escapement (Table 14) and about 2,838 fish above the escapement goal of approximately 1,450 fish. However, the escapement counts were not adjusted for chinook salmon removed by the sport fishery, those that spawned below the counting weir, or escapement after the weir was removed.

The total exvessel value of the 1995 chinook salmon harvest was estimated at \$60,174, averaging \$602 per permit holder (Table 13 and Figure 6-7).

Sockeye Salmon

Background

Economically, sockeye salmon are the most important commercial salmon species in the CMA. The commercial salmon fishery targets two runs of sockeye salmon that return to the Chignik Lake and Black Lake systems. Sockeye salmon destined for the Chignik-Black Lakes system are also intercepted outside the CMA in two historic fisheries: east in the Cape Igvak Section of the Kodiak Management Area; and west in the Southeastern District Mainland of the Alaska Peninsula Management Area.

Although most CMA sockeye salmon production originates from the Chignik-Black Lakes system, some spawning activity does occur in the Eastern District, primarily in the Aniakchak River tributaries (Albert Johnson Creek) and Surprise Lake. Tagging studies conducted over several years in the

Aniakchak Bay and Cape Kumlik areas, indicate that sockeye salmon harvested in these waters are almost exclusively bound for the Chignik-Black Lakes system (Lechner 1969). Consequently, the Eastern District management strategy is based on the run strength of the Chignik-Black Lakes system and opens during June concurrently with the Chignik Bay and Central Districts. This management strategy has been approved by the State of Alaska Board of Fisheries and enacted into regulation as the Eastern District Management Plan (5 ACC 15.360) (ADF&G Regulation Booklet 1992-1995 edition).

The BEG's for Sockeye salmon are 400,000 fish for Black Lake and 250,000 fish for the Chignik Lake stocks. Commercial fishing time for sockeye salmon is regulated based on achieving interim threshold escapements goals by specific dates for each run. Achieving these thresholds is complicated due to overlap of the two runs (the transition period) which generally occurs during the latter part of June to early July.

Annually, June 26 through mid July is the period of transition from early-run (Black Lake) to late-run (Chignik Lake) fish. Management biologists must assess the catch using age and stock composition to determine which stock dominates during this period. Sampling effort is increased from once a week to every third day to assess the changing age and stock composition. Subsequent to sampling results, fishing time may be increased to harvest early-run fish or may be decreased to allow time for evaluating the late-run strength.

Two methods have been developed to estimate the daily proportion of each run during the transition period. The first is based on tagging studies conducted from 1962-1966 (Dahlberg 1968). These studies allowed biologists to develop an average time of entry (ATOE) curve to apportion the two Chignik sockeye salmon runs into the early and late-run components. The second method is based on differential growth between juvenile salmon rearing in Black Lake and Chignik Lake (Burgner and Marshall 1974, Conrad 1983). Sockeye salmon fry rearing in Black Lake (early run) emerge earlier and grow at a faster rate than fry rearing in Chignik Lake (late run) (Narver 1966). The disparity in growth rates between Black Lake and Chignik Lake juvenile salmon is reflected in their scale patterns, which when measured, provides a means to separate Black Lake from Chignik Lake sockeye salmon stocks.

This latter method, scale pattern analysis (SPA), is currently used inseason and postseason to assign sockeye salmon to their stock of origin. After the sockeye age composition is determined, models for the dominate age classes (age-1.3 and -2.3) are constructed using two types of functions: linear discriminate (LDF) and quadratic discriminate (QDF). The model that provides the highest balanced classification accuracy is then selected for stock apportionment.

General results from SPA analysis indicate that the Black Lake run occurs between late May until late July, peaking in the third week of June. By contrast, the Chignik Lake run starts in late May and peaks in late July, but can continue at diminished levels through November. Subsistence users have noted that in February a few sockeye salmon spawn in springs of the Clark River (Figure 2). These generalizations are corroborated, not only by scale pattern analysis, but from Black River weir escapement data and tagging studies (Dahlberg 1968).

In practice when constructing SPA models, the sockeye stocks are apportioned using scales that are randomly sampled from the Chignik Lagoon commercial fishery (unknowns, n=100). The standards (knowns, n=200) are seined from the outlet of Black Lake (early June) and sampled from the Chignik Lagoon commercial fishery (post July 30) when approximately 100% of the salmon are destined for

Chignik Lake. However, when the first run is proportionally much larger than the second, the Black Lake run may constitute a greater proportion of the escapement after July 30 than is now being modeled. In short, fish could be apportioned to Chignik Lake rather than to Black Lake because the current computer program assumes July 30 as 100% apportionment to Chignik Lake.

Inseason estimates are based on age -2.3 sockeye salmon standards collected from Black Lake in June and from the previous year's post July 30 age-2.2 fish which represent this year's age-2.3 Chignik Lake sockeye salmon. Inseason estimates for age-1.3 fish are not possible because the previous year's post July 25 age-1.2 salmon are too scant to create adequate standards. Therefore, postseason estimates are considered more accurate than inseason because they include standards for both major age classes (age-1.3 and -2.3).

Age composition of the Black Lake run is typically dominated by ages-1.3 and -1.2 fish, and the Chignik Lake run by ages-2.3 and -2.2 fish. Historically, it is unusual for the early run to have many age-2.2 fish or the late run to have a very large percentage of age-1.2 fish (Conrad 1983).

The preseason Black Lake run forecast is based on the historical relationship between the prior year's total return of age-1.2 fish, the average length (mid-eye to fork of tail) of the prior year's age-1.2 male fish, and the magnitude of the age-1.3 and -2.3 run component. These variables are used within a multiple linear regression forecast model (Appendix A.1-A.2, and B.1).

The Chignik Lake (late-run) forecast accuracy has historically been variable and construction of a model, such as the one used for Black Lake (early run), has been unsuccessful. The late-run forecast estimate is based on the average return per spawner estimate made for each age class since 1970 (Appendix A.1, A.2, and B.2).

Spawning distribution of the sockeye escapement is determined by aerial surveys, which have been conducted almost every year since 1960.

1995 Forecast

The preseason Black Lake run forecast is based on the historical relationship between the prior year's total return of age-1.2 fish, the average length (mid-eye to fork of tail) of the prior year's age-1.2 male fish, and the magnitude of the age-1.3 and -2.3 run component. These variables are used within a multiple linear regression forecast model (Appendix A.1-A.2, and B.1). Total forecast to the Black Lake sockeye run was expected to be 1.9 million fish. A common property harvest of approximately 1.5 million sockeye salmon was estimated above the BEG of 0.4 million fish.

The Chignik Lake (late-run) forecast accuracy has historically been variable and construction of a model, such as the one used for Black Lake (early run), has been unsuccessful. The late-run forecast estimate is based on the average return per spawner estimate made for each age class since 1970 (Appendix A.1, A.2, and B.2). Total forecast to the Chignik Lake sockeye run was expected to be 0.9 million fish. A common property harvest of approximately 0.65 million sockeye salmon was estimated above the BEG of 0.25 million fish.

1995 Mangement and Harvests

Inriver Management. The Chignik River weir is located three miles upstream from Chignik Lagoon and during 1995 was operational from June 1 through August 24. To ensure that the weir remained fish tight until removal, weekly maintenance dives using scuba gear were made on the weir face to clean video cameras, to repair damage, or to check erosion beneath the aluminum panels.

Fishery Chronology for Early June Inseason Management of Chignik Sockeye Salmon. Annually, in accordance with the annual management plan, commercial sockeye salmon fishing begins if the cumulative sockeye salmon escapement exceeds 40,000 fish prior to June 12, and is accompanied by a strong buildup of sockeye salmon within Chignik Lagoon (Owen and Price 1995a). In 1995, the commercial fishery was opened on June 11 when the June 10 test fishery indicated a significant sockeye salmon buildup in Chignik Lagoon, and the June 10 Chignik weir escapement count of 66,949 surpassed the June 14 interim escapement goal of 50,000-65,000 (Table 11)

These criteria prompted a commercial fishery opening, not only in the Chignik Bay District, but also a concurrent opening in the Central and Eastern Districts. In June, these three districts are required to open concurrently as approved by regulation by the State of Alaska Board of Fisheries and as described in the Eastern District Salmon Management Plan (5 AAC 15.360) (ADF&G Regulation Booklet 1992-1994 edition).

This first opening was extended twice until June 16 because interim escapement goals were being met and sockeye catches averaged over 39,000 fish a day (Tables 4-5). From June 11 to June 15, 217,294 sockeye salmon were caught. When escapement began to lag, the commercial fishery was not extended beyond June 16.

Test fisheries were taken on June 18 and June 20 to assess when to reopen the commercial fishery while assuring that interim escapement goals would not be under or overescaped. As escapement increased throughout the day on June 20, the test fishery indicated a significant sockeye salmon buildup in the lagoon (Tables 4-5). Sockeye escapement, 180,000 as of 7:00 p.m. June 20, surpassed the interim goal for June 20 of 175,000-200,000 (Table 11). Consequently, the commercial fishery opened for 24 hours on June 21 and closed on June 22. During this period 123,982 sockeye salmon were caught (Tables 4-5).

On June 22, the daily sockeye escapement waned to only 2,646, and the fishery was closed. By the morning of June 24, the sockeye escapement rate recovered and escapement was anticipated to surpass the upper end of the interim escapement goal for June 25 of 325,000 (Table 11). This escapement recovery warranted a fishery opening on the afternoon of June 24. During this 24 hour period, 94,704 sockeye salmon were caught (Table 4-5).

Because sockeye escapement fell from June 25 through June 29, no fishery was warranted (Table 11). Then on June 30 a test fishery was conducted in the Chignik Lagoon to determine if sockeye salmon were milling rather than escaping into the Chignik River. Results showed that there was no appreciable sockeye buildup and that for the next few days, escapement was likely to be less than had been forecast during this part of the Black Lake run (Table 4).

After improved escapement and preliminary scale pattern analysis (SPA) indicated that the Black Lake escapement of 400,000 would be attained, a fishery was opened on July 3 for 48 hours in the Chignik Bay and Central Districts (Table 11). The fishery was extended until further notice on July 5 when SPA indicated that the July 10 Chignik Lake interim escapement goal of 40,000 was exceeded (Table 4-5). The Eastern District remained closed to evaluate the transition period between the first and second runs as mandated in the Eastern District Salmon Management Plan (5 AAC 15.360) (ADF&G Regulation Booklet 1992-1994 edition). During this fishing period from July 3 to July 10, 218,227 sockeye salmon were caught (Table 4-5).

Inseason Scale Pattern Analysis of Chignik Sockeye Salmon. During 1995, run transition occurred on July 5 (50% Black Lake / 50% Chignik Lake), as determined by inseason scale pattern analysis (SPA) and age composition data. The highest and most balanced inseason SPA model was the linear discriminate function (LDF) for age-2.2 sockeye salmon which had a mean classification accuracy of 80%. Scale samples (7,970) collected from the commercial fishery in Chignik Lagoon were utilized to determine age composition. The proportion of age-1.3 fish peaked at 58% on June 20, trailing off to only 7.8% at season's end (Tables 15-16 and Figure 9). Age-1.2 fish were not abundant, peaking at 14.3% on June 30. From August 10, age-2.3 fish accounted for over 82% of the run. From mid July on, age-2.2 and age-3.3 sockeye salmon were present in the samples at low proportions.

Falling sockeye catch and escapement after July 3, age composition, and SPA analyses supported the conclusion that the 1995 season could be characterized as having a below average Black Lake first run (Tables 4-5, and 11). In mid July, the rapid increases in sockeye catches and percentages of age-2.3 sockeye stock and age composition were an early indication that there was a strong potential for a larger than average Chignik Lake second run (Table 4, 16, and 17).

Fishery Chronology for the Late Season Sockeye. From mid July on, the management priority shifted towards the Chignik Lake run. On the morning of July 14, escapement was estimated at over 100,000 (Table 17), meeting the July 19 sockeye interim escapement goal of 100,000-115,000. This warranted a 48-hour fishery in the Chignik Bay and Central Districts beginning July 16. This opening was extended to July 17 when the July 21 sockeye upper interim goal of 135,000 was anticipated to be exceeded. The Western and Perryville Districts were opened for the first time on July 15 and then extended when chum escapement was at levels that warranted a fishery. The Eastern District remained closed because the department is required to close the Eastern District on July 15 to allow evaluation of the strength of the pink and chum salmon runs as described in the Eastern District Salmon Management Plan 5 ACC 15.360. From July 14-July 17, 188,696 sockeye salmon were caught (Table 4-5).

Cape restrictions were utilized during the season in outside districts to enhance escapement to specific streams. This measure allows for an aggressively managed fishery that permits an early harvest of a fresh superior pink and chum salmon product for freezing. When the Western and Perryville Districts were opened during July and August, cape restrictions were made between Cape Ikti and Cape Alexander. The Eastern District had cape restrictions between July 31 and August 2 from Cape Ayutka to Cape Providence. Also, in Ivanof Bay, the Road Island markers were used to ensure escapement into bay streams. However, since these restrictions on the capes are more related to pink and chum salmon management, these restrictions will be detailed in the pink and chum salmon section of this AMR.

The Chignik Bay, Central, Western, and Perryville Districts (Figure 4) opened to commercial salmon fishing for 48 hours on July 20 when the sockeye salmon July 23 escapement goal of 140,000-160,000

was anticipated to be surpassed on the evening of July 19 (Tables 11 and 17). The Chignik Bay and the Central Districts were extended first for 48 hours on July 22 and then for 30 hours on July 23 (Tables 4-5). The Eastern District remained closed throughout the entire opening due to weak chum escapement. Fishing in the Western and Perryville Districts was not extended beyond the first opening during this fishing period because chum escapement began to slow down. During the July 20-July 25 fishing period, 185,659 sockeye salmon were caught (Tables 4-5).

The Chignik Bay and Central Districts were opened the afternoon of July 27, and the Western and Perryville Districts were opened at midnight July 28 to commercial fishing because the July 31 sockeye Chignik Lake interim goal of 200,000 was anticipated to be surpassed (Tables 11 and 17). These Districts were all extended until August 2 because chum escapement goals were being met and pink escapement was stronger than average for this time of the season. The Eastern District was opened for the first time since June 25 on July 30 and extended until August 2. This fishing period in the Eastern District was used to collect information on pink run strength because, although escapement was rather slow in this district, the other outside districts were ahead of goals for this time of year. From the July 27-August 2 fishing period, 137,760 sockeye salmon were caught (Tables 4-5).

On the morning of August 4, Chignik Lake (late run) sockeye escapement through the weir was approximately 226,000 (Tables 11 and 17). At this rate of escapement, the Chignik Lake sockeye salmon interim goal of 250,000 by August 31 would easily be achieved. Consequently, the Chignik Bay and Central Districts were open to commercial fishing from August 4 to August 11. The Eastern, Western, and Perryville Districts were opened on August 4, closed on the morning of August 6, reopened on the afternoon of August 8, and extended on August 8 until August 11. From the August 4-August 11 commercial fishing period, 109,008 sockeye salmon were caught (Tables 4-5).

On August 14 the fishery opened in all districts of the Chignik Management Area. The fishing period was continuously extended for all districts until August 31 (Tables 4-5). This extended fishing period was warranted in the Chignik Bay and Central Districts because sockeye escapement was ahead (248,000 on August 13) of the rate that would achieve 250,000 by August 31 (Tables 11 and 17). Continuous fishing was warranted in the Eastern, Western, and Perryville Districts because stream surveys showed that many streams were near or surpassed their pink salmon escapement goal. From the August 14-August 31 commercial fishing period, 328,111 sockeye salmon were caught (Tables 4-5).

The entire CMA opened to commercial fishing from September 3 until September 7 (Table 4-5). A fishery opening was warranted in the Chignik Bay and Central Districts because sockeye escapement to Chignik Lake, 300,000 as of the morning of September 1, surpassed the escapement goal to Chignik Lake of 250,000 by August 31 (Tables 11 and 17). In outside districts, pink escapement had either surpassed or was near each stream escapement goal. Also, the coho catch rate during the season was high enough to indicate that the coho run strength was adequate to support a fishery. From the September 3-September 7 commercial fishing period, 67,302 sockeye salmon were caught (Table 4-5).

The entire CMA opened to commercial fishing from September 10 until September 16. The schedule for further openings after September 16 until the regular commercial salmon fishing season would be closed by regulation on October 31 was as follows: the fishing period will be for 48 hours starting at 12:01 a.m. Tuesdays and ending at 11:59 p.m. Wednesdays. However, the regular season was prematurely closed because of market conditions. Local processors purchased their last salmon on

September 16. From the September 10-September 16 commercial fishing period, 48,056 sockeye salmon were caught (Table 4-5).

Cape Igvak Sockeye Salmon Fishery. The Cape Igvak fishery harvested an estimated 169,530 Chignik bound sockeye salmon through July 25 (Table 18). This represented 13.22% of the total Chignik salmon harvest through July 25, 1.78% less than the 15.0% allocated by regulation (ADF&G 5 AAC 18.360. Cape Igvak Salmon Management Plan) (ADF&G Regulation Booklet 1992-1994 edition). The post July 15 Chignik bound harvest in the Cape Igvak area was estimated at 28,167 sockeye salmon for a total season harvest of 197,697 fish (Table 19).

Southeastern District Sockeye Salmon Fishery. The Southeastern District Mainland fishery harvested an estimated 88,301 Chignik bound sockeye salmon through July 25 (Table 18). This represented 6.88% of the total Chignik salmon harvest through July 25, 0.02% less than the 7.0% allocated by regulation (ADF&G 5 AAC. 09.360 Southeastern District Salmon Management Plan) (ADF&G 1992-1994 Regulation Booklet edition). Catches of Chignik bound sockeye salmon in the Southeastern District Mainland area after July 25 were estimated at 181,505 for a total of 269,806 sockeye salmon (Table 19).

Post season Scale Pattern Analysis of Chignik Sockeye Salmon. Postseason SPA age-1.3 and -2.3 models, that were used to assign sockeye salmon to Black Lake or Chignik Lake, were created using linear (LDF) and quadratic (QDF) discriminant functions to evaluate which type of analysis would provide the best classification accuracy. The linear discriminant models for the age-1.3 and 2.3 sockeye salmon provided the highest balanced classification accuracies of 72% and 80%. Estimates using these models were assigned as percent composition to Black Lake or Chignik Lake for each commercial sample (Tables 20-21). Linear interpolation of percent composition between sample dates was calculated for catch and escapement values and adjusted to Chignik Lagoon dates (Table 22) resulting in daily escapement and catch estimates for each stock (Tables 23-24) (Figure 10). The postseason transition date was July 8, 3 days later than the inseason date of July 5 (Figure 10).

The Black Lake sockeye salmon postseason SPA escapement estimate of 366,163 was 39,501 fish less than the inseason estimate (Table 17 and 25) and 33,837 less than the upper range of the established Black Lake BEG. These fish were reallocated by the postseason SPA to the Chignik Lake sockeye salmon escapement. Chignik Lake escapement includes not only fish counts estimated through the weir but also post weir estimates that are based on statistical analysis of the ratio of the Chignik Lagoon sockeye catch to escapement prior to weir removal. This relationship is then extrapolated to post weir escapement as long as the commercial fishery continues. The estimated Chignik Lake escapement until the commercial fisheries ended on September 16 was 373,757 fish, 123,757 fish more than the 250,000 Chignik Lake BEG to August 31 (Table 26).

The discrepancy between the inseason and postseason estimates most likely occurred because the historical scale pattern analysis apportionment curve that was selected assigned a higher proportion of age-1.3 sockeye salmon to Black Lake than assigned by the postseason apportionment curve.

Major age classes (in percent) as determined by SPA contributed to the escapement and catch of the Black Lake run as follows: age-1.3 (46.0% and 44.0%) age-1.2 (11.1% and 10.3%); age-2.3 (23.4% and 27.6%); age-2.2 (18.5% and 16.9%), age-3.3 (Trace% and 0.1%)(Table 25 and 27). Major age classes (in percent) as determined by SPA contributed to the escapement and catch of the Chignik Lake

run as follows: age-2.3 (52.3% and 66.1%); age-1.3 (26.6% and 17.5%); age-1.2 (7.2% and 5.1%); age-2.2 (12.4% and 9.2%) and age-3.3 (0.3% and 0.5%) (Table 26 and 28).

Season Summary. In summary, the 1995 total sockeye harvest and escapement was 2.9 million fish (Tables 29-30; Figures 11-12). This was within the forecasted range of 2.1 to 3.4 million total fish return (Appendix A.1-A.2). The sockeye salmon run for Black Lake was 1.0 million fish and for Chignik Lake was 1.9 million fish. Total escapement to both lakes was 739,920 sockeye salmon with 366,163 apportioned to Black Lake and 373,757 apportioned to Chignik Lake (Table 29-30). Total catch to both lakes was 2.2 million sockeye salmon (includes Igvak and South Eastern District Mainland) with 0.7 million apportioned to Black Lake and 1.5 million apportioned to Chignik Lake (Table 29). Total sockeye harvest within the CMA was 1.7 million fish at a value of 12.0 million dollars. Harvests by district within the CMA are as follows: 63% in Chignik Bay District, 24% in the Central District, 3% in the Eastern District, 5% in the Western District, and 6% in the Perryville District (Table 3). Harvest of Chignik Bound sockeye salmon through July 25 in the CMA was 1,024,785 (79.90% of the total) at Cape Igvak was 169,530 (13.22% of the total) fish and to Southeastern District Mainland was 88,301 (6.88% of the total) fish (Table 18) .

The exvessel value of the sockeye salmon harvested in the CMA was approximately \$12.0 million dollars (Table 13 and Figure 6). The average value per permit holder was \$119,692 (Figure 7).

Pink and Chum Salmon

Background

Pink and chum salmon production in the CMA is characterized by variable escapements and calculated returns per spawner for both species (Tables 32-49). These variabilities could be attributed to the physical morphology of the river and stream systems, which are characterized by loose substrates and steep gradients. These systems are impacted by fall, winter, and spring floods which cause streambed scouring, and can result in high egg and fry mortality.

Openings in the Eastern, Western, and Perryville Districts from early July through August depends primarily on the abundance of pink and chum salmon (Figure 4). Whereas, openings in the Central and Chignik Bay Districts are based primarily on a directed fishery on the Chignik Lakes' sockeye salmon where pink and chum salmon are caught incidentally.

Management of the CMA pink and chum salmon fisheries is based on inseason aerial assessment of escapement (conducted annually from 1953) (Table 48), and catch per unit effort (CPUE) data. Aerial surveys of approximately over 100 salmon streams, adjacent bays, and stream mouths are taken periodically throughout the season to provide the most current inseason indices of escapement (Table 48-49). In order to estimate the total escapement for each stream throughout a particular salmon season from aerial observations, postseason escapement indices are estimated using area-under-the-curve methodology (Johnson and Barrett, 1988). The estimates assume a 15.0 day average stream life for pink and chum salmon and a final escapement stream entry date of September 10 (Table 49). There have been problems with harvests of immature chum and sockeye salmon in past years, which have prompted commercial salmon fishing closures in the Mitrofanina Section of the Western District in early July.

Currently, all salmon processed locally are for the fresh frozen market because there are no operational canning facilities. Consequently, to provide the quality required for fresh frozen processing, the fisheries are managed to intercept migrating fish prior to, or just as they reach terminal waters.

1995 Forecast

The 1995 preseason harvest projections estimated a catch of 1.1 million pink salmon and 240,000 chum salmon (Appendix A.1). The projected return of pink salmon was based on multiplying the average recruit per spawner for the previous ten years by the parent year escapement. The catch projection is driven by escapements to the Central/Eastern and Western/Perryville Districts. The largest pink catches were projected to come from the Central/Eastern Districts. An aggressive management strategy was anticipated early in the season prior to aerial assessment of salmon in bays, stream mouths, and streams.

1995 Management and Harvests Through July 13

During June and early July, pink and chum salmon were caught incidentally in openings directed towards the harvest of sockeye. When the Chignik Bay District opened, the Central and Eastern Districts were opened concurrently as mandated by the Eastern District Management Plan (5 AAC 15.360) (ADF&G Regulation Booklet 1992-1994 edition). Catches in the Chignik Bay, Central, and Eastern Districts from June 11-June 25 were 1,593 pink and 14,979 chum salmon (Table 5).

The Perryville District ordinarily opens July 6 or later when chum escapement goals are being met. However, in 1995 a directed chum salmon fishery was allowed within defined limits in Ivanof Bay (Appendix C). A July 2 aerial survey of Ivanof River and Bay showed that there were at least 50,000 chum salmon in the bay and 50,000 in the stream mouth. Consequently, a fishery was warranted from July 4 through July 6 to harvest chum salmon surplus to escapement needs. A conservative approach was taken by allowing fishing only 6 hours on July 4, 15 hours on July 5, and 6 hours on July 6. From Ivanof Bay during this period, 28 kings, 10 sockeye, and 31,136 chum salmon were caught (Table 5).

In the Chignik Bay and Central Districts, early July pink and chum salmon were caught incidentally in directed sockeye salmon openings. From July 3 through July 10 7,075 pink and 23,281 chum salmon were caught in those districts.

Openings in early July in the Eastern, Western, and Perryville Districts are typically used to provide an early assessment of pink and chum salmon run strengths to those districts (Figure 4). However, during the 1995 season, the Eastern District remained closed from July 3 to July 29 for the following reasons: 1) in early July to assess the transition period between Black Lake and Chignik Lake sockeye stocks, 2) mid to late July to allow evaluation of the run strength (aerial surveys) of pink and chum salmon as described in the Eastern District Salmon Management Plan 5AAC 15.360(b), and 3) aerial surveys results from mid to late July showed weak chum and pink escapement.

1995 Management and Harvests From July 14

Closed Waters within Districts. After approximately mid July, restrictions in the Central, Eastern, Western, and Perryville Districts were implemented to encourage pink, chum, and to a lesser degree; coho escapement while pursuing an aggressive harvest policy on the outer capes. This harvest policy can provide fresher fish for the frozen food market that yields a higher quality product for local

processors. This section describes when and why restrictions were placed on open waters within each district during the 1995 season (Appendix C).

Central District

From July 14 until September 14: Open waters in the Central District were to the regular stream terminus markers except in Kujulik Bay: open waters were south of a line drawn from Brandel Point on Cape Kumlik to the furthest northeast Point on Cape Kumlium. This restriction was used to promote chum and pink escapement into Kujulik Bay streams.

Eastern District

July 31 until August 2: Open waters were changed from the regulatory stream markers to south of a line that runs from Cape Ayutka to Cape Providence (Figure 4). The Agripina section of the Eastern District remained closed. Although, escapement appeared weak for this time of the season, an extension on the capes was intended to encourage fishing where there had been very little effort and the catch rates were used to give an early indication of the pink run strength.

Western and Perryville District

From July 15 until August 17: Open waters in the Perryville and Western Districts included all the waters south of a line from Cape Ikta to Alexander Point (Figure 4). This restriction was used to promote pink and chum escapement to Western and Perryville streams as well as promote product quality by harvesting fresher fish on the capes.

Ivanof Bay of the Perryville District

From July 15 until September 7: Open waters in Ivanof Bay were to the Road Island markers (Figure 4). From August 18 until September 14: Open waters in the Perryville and Western Districts included all waters south of a line drawn from Cape Ikta to Alexander Point except in the Humpback Bay Section which was open up to the regulatory markers (Figure 4). This restriction was used to promote pink and chum escapement to Western and Perryville streams other than those of the Humpback section. Humpback Bay streams had already surpassed escapement goals for all species except coho by mid-August and the surplus was offered to the commercial fleet.

From September 14 until September 16: Open waters in the Perryville and Western Districts were all waters up to the regulatory stream markers except in Ivanof Bay. Interim escapement surplus for all species was made available to the commercial fleet.

Openings Post July 14. The Western and Perryville Districts did not open until after July 15 to assist in assessing second run sockeye run strength using SPA (Figure 4). There were three openings in the Western and Perryville Districts from July 15-August 2 to harvest pink and chum salmon (Table 5). The pink and chum salmon catch from July 15-July 17 was 100,477 pink and 43,962 chum salmon, from July 20-July 22 was 132,897 pink and 66,168 chum salmon, and from July 28 to August 2 was 578,968 pink and 66,929 chum salmon (Table 5). Fisheries were warranted during these periods because chum escapement was on track for most streams in the Western and Perryville Districts, and catch for both chum and pink salmon was above average.

There were also three openings in the Chignik Bay and Central Districts between July 14-August 2. From July 15 to July 17 8,003 pink and 6,665 chum salmon were caught, from July 20-July 25 59,599

pink and 21,845 chum salmon were caught, and from July 27 to August 2 105,140 pink and 20,481 chum salmon were caught.

From August 4-August 6 and from August 8-August 11 the Western and Perryville Districts were opened to commercial fishing (Figure 4). The August 7 closure to the outside districts was necessary to allow for continued escapement of pink salmon to some of the smaller streams. The opening August 4-August 6 produced 296,193 pink and 15,351 chum salmon, and the opening August 8-August 11 produced 154,699 pink salmon and 7,768 chum salmon. For comparison, from August 4-August 11 in the Chignik Bay and Central Districts, 227,885 pink salmon and 19,502 chum salmon were caught (Tables 4-5).

From August 14-August 31 all CMA districts were opened to commercial fishing because aerial surveys had shown that most streams were near or had surpassed their pink salmon escapement goals. From August 22-August 26 the Western and Perryville Districts were not fished although they were open. This occurred because the area pink salmon processors had exceeded their processing capacity, and seiners were put on limits. In the Western District from August 14 until August 21, 163,746 pink salmon and 13,858 chum salmon were caught and from August 27 to August 31, 41,623 pink salmon and 4,137 chum salmon were caught. Fish were continuously delivered from the Chignik Bay and Central Districts from August 14-August 31 for a total of 165,688 pink salmon and 19,223 chum salmon (Tables 4-5). The Eastern District was not fished because of market limits. After August 31, management priorities changed from pink and chum salmon to coho salmon.

Pink runs to the Chignik Area as well as to the entire Westward Alaska were some of the strongest on record. The total run to the CMA of 5.5 million pink was the largest run since the beginning of State management in the 1960s (Tables 9 and 37).

The total catch of 2,057,998 pink salmon was the second largest harvest since the 1960s, was above the projected 1.1 million pink salmon harvest, and was above the 1986-1994 average harvest of 1,114,829 fish (Tables 8, 37 and Appendix A.1). The largest catch came from the Western District, totaling 791,718 fish, and the smallest catch coming from the Eastern District, totaling 8,074 fish (Table 3). The harvest for pink salmon may have reached an all time record high if delivery limits were not enforced by local processors.

The 1995 CMA pink salmon estimated total escapement of 3,432,008 fish was based on the area-under-the-curve method (Johnson and Barrett 1988; Tables 9, 37 and Figure 13). The 1995 pink salmon escapement was the largest since state management and perhaps historically. The distribution and the comparative magnitude of the 1995 escapement to the 1986-1994 escapement average by CMA District is as follows: the Chignik Bay District escapement of 180,500 (Table 9) is almost ten times more than average of 18,800 fish (Table 32), the Central District escapement of 715,500 is almost five times the average of 152,300 pink salmon (Tables 33), the Eastern District escapement of 1,399,300 was more than two times the average of 653,700 fish (Table 34), the Western District escapement of 554,700 is seven times the average escapement of 77,700 fish (Table 35), the Perryville District escapement of 582,100 is almost three times the average escapement of 215,500 (Table 36).

The 1995 CMA chum salmon catch and escapement was 380,949 and 347,838 (Table 43; Figure 14). The CMA harvest was approximately 141,000 above the forecasted harvest of 240,000 fish, and 211,051 above the 1986-1994 average harvest of 169,898 fish (Appendix A.1 and Table 8). Most chum

salmon were harvested in the Central (107,061), Western (158,273), and Perryville Districts (92,953) (Tables 38-42). The chum salmon escapement to the following districts of the CMA are as follows: Chignik Bay (10,325), Central (44,483), Eastern (112,750), Western (45,653), and Perryville (134,627) (Tables 38-42).

The exvessel value of the pink and chum salmon harvested within the CMA was \$977,811 and \$634,780 (Table 13 and Figure 6). The average value per permit holder was \$9,778 for pink salmon and \$6,348 for chum salmon (Figure 7).

Coho Salmon

Background

Although a directed CMA coho salmon fishery begins in late August to early September primarily in the Chignik Bay District, coho salmon are also harvested incidentally in the directed sockeye, pink, and chum salmon commercial fisheries. Outside of the Chignik Bay District, the Western District has produced, for most years, the highest coho catches (Figure 15). Commercial coho catches begin as early as June and have continued until the fishery closes, which could run by regulation until October 31. Total catches for the years 1976 to 1995 have ranged from 17,430 to 370,400 fish with an overall trend of increasing catches since 1960 (Table 8 and Figure 16).

Coho catch distributions have recently appeared bimodal with one peak in late July during the targeted pink and chum fisheries, and another in late August to early September (Tables 4-5). The early coho catches, occurring primarily in the Western and Perryville Districts, have similar average weights to those caught early in Chignik Lagoon. As the season progresses, coho salmon average weights increase dramatically in outside districts as well as the Chignik Bay District. However, the catch volume makes a definite shift from outside districts to the Chignik Bay District in late August early September (Tables 4-5).

The Chignik Lakes' coho run is the largest within the CMA and one of the largest within the entire Westward Region. In the Chignik lakes system (from 1985-1995 except 1989, the oil spill year), escapement has averaged 75,012 fish and catches within the Chignik Bay District has averaged 75,753 fish. Other areas of high concentration of coho escapement are in Ivanof Bay in the Perryville District and several streams in the Eastern District.

Direct estimates of coho escapement into the Chignik Lakes system were available using weir counts until the weir was removed on August 24. However, escapement of coho salmon was estimated from August 25 until September 16 using the relationship of sockeye catches to sockeye escapement and extrapolating that ratio to coho salmon (Table 12). Overall, coho escapement monitoring in the CMA is sporadic due to the late timing of the run and logistics involved in monitoring the many streams in the area.

1995 Forecast

Harvest projections for Chignik Bay and outside catches are based on a 10-year average. The 1995 coho forecast is 200,000. However, coho harvests may be affected by the strength of the Chignik Lake

sockeye run and the strength of the pink and chum runs. For example, a weak sockeye salmon second run (Chignik Lake) or a weak pink and chum run could severely curtail those fisheries and consequently, the incidental harvest of coho salmon.

1995 Management and Harvests

A total of 280,605 coho salmon were harvested in the CMA in 1995, the fourth largest harvest on record (Table 8 and Figure 16). This catch was about 81,000 fish more than the harvest projection of 200,000 fish. Most of the July coho catches (Tables 3, 8, and Figure 15) came primarily from the Western and Perryville Districts. For example, 16,767 of the 17,007 coho salmon caught July 17 were caught in the Western and Perryville Districts. Late August catches of coho came mostly from the Chignik Bay District as catches in the Western and Perryville District declined (Tables 4-5).

In September two regulatory marker moves were made specifically to enhance the harvesting of coho salmon. From September 14 until September 16 in Kujulik Bay, open waters were moved to the stream markers in the northeast end of the bay. From September 12 until September 16, open waters in Ivanof Bay were moved south of a line from the outermost piling of the old cannery dock to the opposite shore. (Appendix C).

Coho escapement to the Chignik Lake system was estimated to September 16 (the last fishing day) at 19,078 (Table 12). No early September aerial surveys of CMA streams were taken because of problems with obtaining a 100 hour inspection of the department's supercub. Coho were impossible to see in streams in late August because of the cover of dense schools of pink salmon still escaping into CMA streams.

The exvessel value of the CMA coho salmon harvest was \$834,337 (Table 13 and Figure 6). The average value per permit holder was \$8,343 (Figure 7).

Subsistence Salmon Fisheries

The CMA villages of Chignik, Chignik Lake, Chignik Lagoon, Perryville, and Ivanof Bay rely heavily on local salmon resources for subsistence. Salmon subsistence permits are issued to people in these villages through the Kodiak and Chignik ADF&G offices, Village Public Safety Officers, processors, and Subsistence Division personnel on assignment from the Anchorage ADF&G office. In 1995, 86% of the CMA subsistence permits issued were returned with harvest data. The ADF&G Subsistence Division estimates harvests by a stratified expansion design for each community. In 1995, the CMA subsistence harvest was estimated at 98 chinook, 9,563 sockeye, 1,191 coho, 723 pink, and 150 chum salmon (Table 50).

Personal Use Subsistence

1995 was the first year that Chignik permit holders were able to record commercially harvested salmon as personal use on a ADF&G fish ticket. A total of 232 chinook and 913 coho salmon were designated as being utilized for personal use (Table 51).

Special Research Projects

Video Counting Feasibility Study

One complete video counting system was purchased for the 1994 field season at Chignik. During the 1995 season, an additional complete video system was added that included a monitor, VCR, and camera. The monitors and two VCRs were set up in the Chignik office and were connected to the underwater video cameras at fish counting gates by television cable. An independent light source was also installed at each gate so that salmon could be observed 24 hours a day.

The clarity of the image on the monitor was excellent. Individual scales could be seen; the lateral line was very distinctive; sea lice could be seen near the anal fin; the pores near the eye could be distinguished; and colors were sharp which aided in the identification of salmon. If there were any questions concerning numbers or identification of salmon, there was always the option to review the section of tape in question.

The VCR recorded all passage of fish and animals 24 hours a day on super VHS tapes. Tapes were changed every morning at 7:00 a.m.. In between live counts, the previous day's ten minute hourly counts could be reviewed on a second VCR and corrected if any errors were found. The reviewing VCR enabled the viewer to fast forward through blank spots containing no fish, to review previous sections of tape, to advance the tape at normal speed, or to view the tape by frame when fish numbers or species identity were in doubt.

Procedurally, salmon were enumerated, identified, and recorded each day live from the monitor inside the office at the top of each hour for ten minutes from 7:00 a.m. until 10:00 p.m. The daily night time counts, from 11:00 p.m. to 6:00 a.m., were taped and then counted later between 7:00 am and 8:00 a.m. All ten minute counts were recorded and then expanded to the entire hour count.

Another use for the camera, in the future, might be to enumerate outmigrating smolt. Smolt were easily seen outmigrating past the camera view. Some modifications, such as leads and chutes, might improve the accuracy of enumerating smolt.

Resource Apprenticeship Program for Students

The Chignik Area Finfish Management Biologist was approached prior to the 1994 and 1995 field season by a representative of the Bureau of Land Management (BLM) to consider apprenticing a high school student as a fish and wildlife technician for the field season. BLM sponsors the Resource Apprenticeship Program for Students (RAPS) by placing a student in a career field choice and by providing for the salary and insurance. High school counselors help students determine what field they may want to pursue and suggest different summer work opportunities through the RAPS program.

In 1995, one high school student, who attended school and lived in Anchorage, was accepted from the RAPS program. The RAPS student, John Kakaruk who is a highschool junior and was born and raised in northern Alaska, was interested in what a fisheries manager's duties actually were. His duties were exactly the same as other Fish and Wildlife Technicians at the weir. His first day of work was June 26 and his last day of work was August 19.

This manager feels that the RAPS program should continue at the weir because it provides an opportunity for a high school student to get insight into the career field he or she has chosen. This program greatly benefits the department because the student goes home with his or her experiences of the day and relates them to family and friends; which in turn, educates the local people about the department's purposes and goals.

CHIGNIK HERRING FISHERIES

Background

The earliest recorded herring (*Clupea pallasii*) fishery in the Alaska Peninsula region was in 1906. Although during the early herring fishery, Chignik area catches were combined with catches from North and South Peninsula areas and labeled as southwestern Alaska catches, annual herring catches did not exceed 500 tons. These herring were harvested with beach seines and marketed as a salted product. This early herring fishery ceased in the late 1930's and did not commence again until 1980, with the sac roe herring fishery.

Since 1980, the CMA area sac roe herring fishery has been a low effort, low yield fishery (Figure 17). Prior to 1984, harvests were concentrated in the Big River Section of the Eastern District. This area was closed to commercial herring fishing in 1985 and has remained closed to protect depressed stocks. This closure shifted effort into other areas of the CMA but harvests remained low.

Herring spawning schools that are in small geographic areas, generally a bay or lagoon, are managed as discrete stocks. The projected annual harvest for each of these stocks is dependent on the previous year's biomass estimates at an exploitation rate of 0-20% (Owen and Price 1995b). Preseason harvest projections may differ from actual harvest levels if inseason information (aerial surveys, catch per unit effort) suggests that the spawning biomass of a discrete stock differs significantly from anticipated levels.

1995 Management and Harvests

The 1995 herring sac roe season is characterized as a very low yield fishery for the effort expended. Four boats delivered 77 tons from four statistical areas. A total of 44 tons came from the Chignik Bay District and 33 tons from the Western District. No herring biomass estimates were made by the department because an airplane was not available.

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Table 1. List of permit holders who fished in the Chignik Management Area, 1995.

	NAME		PERMIT NO.	RESIDENCY	VESSEL NAME	ADF&G NO.
1	ALECK	NICK	S01L56935J	R	TIFFANY NICOLE	54974
2	ALEXANDER	JASON	S01L59000W	NR	CAPT'N JAY	21757
3	ANDERSON	JULIUS	S01L55433H	R	CHRISTINA J	41205
4	ANDERSON	AARON	S01L56203U	R	VENTURE	33848
5	ANDERSON	DAVID	S01L56415U	R	GYPSY LADY	61550
6	ANDERSON	RODNEY	S01L56936B	R	ENDURANCE	64123
7	ANDERSON	GEORGE	S01L57133E	R	ALICE A	33375
8	ANDERSON	AL	S01L57160U	R	ALYSA JUNE	61634
9	ANDERSON	GARY	S01L57501K	R	JANET LYNNE	53370
10	ANDERSON	RONALD	S01L58818F	R	LADY ANN	58085
11	ANDERSON	DEAN	S01L60114M	NR	SIERRA GALE	60913
12	ANDERSON	EUGENE	S01L60601G	R	RAY MAR	31492
13	ASTOR	CRAIG	S01L59794I	R	DREAMER	41317
14	BATTISHILL	FRANK	S01L50045K	R	PRINCESS DANETT	117
15	BECK	MARK	S01L55925M	NR	COLUMBIA	56222
16	BECKER	CARL	S01L57469C	NR	VICTORIA	51091
17	BRANDAL	HENRY	S01L50032K	R	AQUARIUS	11045
18	BRANDAL	ALEC	S01L55170U	R	ALEXANDRIA	32586
19	BROWN	MALCOLM	S01L55938M	R	HYPATIA	62612
20	BUMPUS	DONALD	S01L61910L	NR	KIMBERLY DAWN	59651
21	CAMPBELL	DANIEL	S01L55731X	NR	JULIA ANN	40262
22	CARLSON	EUGENE	S01L55520P	NR	LADY ANN	58085
23	CARLSON	GARY	S01L56192Z	R	AARON C	21898
24	CARLSON	ERNEST	S01L57125P	R	DESPERADO	43775
25	CARLSON	DALE	S01L57473V	R	LADY DIANE	43370
26	CARLSON	AXEL	S01L57612J	R	MISS MARIT	35863
27	CARLSON	RODERICK	S01L57704F	R	INLET WARRIOR	57904
28	CARLSON	ERIC	S01L62210Z	R	ERICA RAE	33957
29	CARLSON	RODERICK	S01L57695S	R	DIANA	51282
30	CARROLL	ALBERT	S01L60106Z	NR	SANDRA SUE	40911
31	CONSTANTINE	JOHNNY	S01L57808I	R	ORIOLE	15888
32	CRONK	GLEN	S01L58603C	NR	ROYAL LADY	38635
33	ENDRESEN	ANDY	S01L60183F	R	PROVIDER	17124
34	ERICKSON	CLARENCE	S01L56512B	R	SHARON LEE	53266
35	GREGORIO	TONY	S01L58848X	R	ANTOINETTE RENA	37548
36	GRNERT	FRANK	S01L59851X	R	KURT ELDON	61416
37	GRUNERT	MICHEAL	S01L55935K	R	CAPT'N SAM	59482
38	HARDER	PAUL	S01L56589I	NR	GRAYLING	57660
39	HINDERER	WALLACE	S01L57085S	R	RAEHEL LOUISE	41592
40	HINDERER	RAEHEL	S01L57376O	R	ILLUSION	10567
41	JOHNSON	PAUL	S01L56395S	NR	SUSAN RAE	35956
42	JONES	MORRIS	S01L56405W	NR	ISLANDER	39275
43	KALMAKOFF	ARTEMIE	S01L50090M	R	OCEAN SPRAY	23636
44	KALMAKOFF	GUSTIA	S01L50123N	R	NICOLE DANIELLE	21554
45	KALMAKOFF	ARCHIE	S01L55361H	R	DESERT STORM	38122
46	KALMAKOFF	JOSEPH	S01L60614G	R	SEA ROGUE	11017
47	KASHEVAROF	WILLIAM	S01L57487N	R	CHRISTINE K	54242
48	KOPUN	ALOYS	S01L57863I	R	KAREY GALE	45995
49	KOSBRUK	IGNATIUS	S01L50116R	R	JELLY ROLL	45720

-Continued-

Table 1. (page 2 of 2)

	NAME		PERMIT NO.	RESIDENCY	VESSEL NAME	ADF&G NO.
50	KOSBRUK	HARRY	S01L56726L	R	SAINT HERMAN	38528
51	KOSBRUK	BORIS	S01L58206U	R	LADY EVELYN	43200
52	KULIN	STEPHEN	S01L60113U	R	KRITARKA	63151
53	LIND	JOHNNY	S01L50223W	R	ALEUT SISTERS	38404
54	LIND	ELLIOT	S01L56872O	R	LISA MARIE	35950
55	LIND	DORIS	S01L57384C	R	ANITA MARIE	62031
56	LOUNSBURY	BRETT	S01L58322F	R	KARMA	31995
57	MCCALLUM	CHARLES	S01L55399O	NR	NAVIGATOR	32397
58	MCKILLY	GABRIEL	S01L59493O	R	DOROTHY M	32863
59	MERSHON	DANIEL	S01L61370V	R	MAGNUM	42629
60	MOORE	JEFFREY	S01L58578P	R	DANA CHERIE	61384
61	ODOMIN	NICK	S01L57696L	R	ELLA MAE	195
62	OGLE	LEONARD	S01L55311R	R	CHALLENGE	61706
63	OLSEN	KNUD	S01L56418W	NR	HEIDE LINEA	55822
64	OLSEN	GARRETT	S01L58496R	NR	ABSOLUT	21877
65	OLSEN	JEFFREY	S01L60115F	NR	DENAKA	118
66	ORLOFF	GEORGE	S01L59308M	R	MARJONETTE	57946
67	PEDERSEN	ALVIN	S01L55953V	R	MILLIE JO	37662
68	PEDERSEN	ARTHUR	S01L55954N	R	MICKEY H	61758
69	PEDERSEN	HANS	S01L57171K	R	SUSIE LYNN	40248
70	PEDERSEN	AUGUST	S01L58126H	R	SHARON ANN	59642
71	PEDERSEN	MARIUS	S01L64187U	R	KAISHA LENA	57465
72	PEDERSEN	COREY	S01L64188M	R	RESURRECTION	45469
73	PHILLIPS	ELIA	S01L50332L	R	ADVENTURESS	42335
74	PHILLIPS	PETER	S01L52949G	R	ROBYN ANN	40484
75	PLETNIKOFF	ROBERT	S01L58077F	R	RITA MARIE	35986
76	ROWLAND	ROGER	S01L63976A	R	KIMBERLY ANN	20699
77	RYMUT	DONNA	S01L58425P	R	LINDY	27832
78	SHANGIN	CLEMENT	S01L56733H	R	MISS CLEMENTINE	38622
79	SHANGIN	RUSSELL	S01L57003B	R	AMBER NICOLE	56291
80	SHANGIN	ANDY	S01L58145K	R	SHARON DAWN	39351
81	SHANGIN	DENNIS	S01L58178G	R	MIRANDA LEIGH	21899
82	SIEMION	THEODORE	S01L56322H	NR	OUTSIDER	20453
83	SIEMION	MATTHEW	S01L56992S	NR	SEA BREEZE	32361
84	SKONBERG	RALPH	S01L50205L	R	DAY DREAMER	28657
85	SKONBERG	ARNOLD	S01L55477R	R	TASHA	32433
86	SKONBERG	DARRELL	S01L55546P	NR	ALASKA ROSE	33614
87	SKONBERG	CALVIN	S01L56228C	R	ROSALIE	34184
88	SKONBERG	ROY	S01L58470R	R	AMY RAE	42210
89	STEPANOFF	SAM	S01L50338P	R	SONIA FRANCINE	33778
90	STEPANOFF	WALTER	S01L57091W	R	MIRICLE GIRL	36629
91	STEPANOFF	OLEANA	S01L58308N	R	JERILYN DEE	45060
92	STEPANOFF	ANDREW	S01L60144G	R	LAURA JUNE	38396
93	SUYDAM	LOWELL	S01L56680K	R	STELLOR	39962
94	SUYDAM	GLENN	S01L59615J	R	ALEUT SON	53205
95	TAKAK	AFONIE	S01L57035F	R		50048
96	TEUBER	PAUL	S01L60121I	NR	SONDRA	55545
97	VAN WINGERD	MARK	S01L57296B	R	KARISSE DAWN	58817
98	VEERHUSEN	DANIEL	S01L57662X	R	FLAPPING EAGLE	61816
99	YAGIE	JERRY	S01L56797N	R	NORTHWIND	36296
100	YAGIE	MARVIN	S01L57278P	R	MAXINE	54909

Table 2. Residentiary status of permit holders in the Chignik Management Area, 1966-1995.

Year	Residentiary Status				Total
	Resident	Percent	Non-Resident	Percent	
1966	65	89	8	11	73
1967	73	88	10	12	83
1968	59	88.1	8	11.9	67
1969	57	83.8	11	16.2	68
1970	57	82.6	12	17.4	69
1971	64	83.1	13	16.9	77
1972	62	78.5	17	21.5	79
1973	63	81.8	14	18.2	77
1974	79	84	15	16	94
1975	72	83.7	14	16.3	86
1976	66	85.7	11	14.3	77
1977	74	84.1	14	15.9	88
1978	82	86.3	13	13.7	95
1979	87	86.1	14	13.9	101
1980	87	86.1	14	13.9	101
1981	87	84.5	16	15.5	103
1982	89	84.8	16	15.2	105
1983	84	84	16	16	100
1984	84	83.2	17	16.8	101
1985	85	84.2	16	15.8	101
1986	87	87	13	13	100
1987	89	87.3	13	12.7	102
1988	88	86.3	14	13.7	102
1989	86	84.3	16	15.7	102
1990	85	84.2	16	15.8	101
1991	85	83	18	17	103
1992	84	84	17	17	101
1993	85	83.3	17	16.7	102
1994	82	82.8	17	17.2	99
1995	80	80.0	20	20.0	100

Table 3. Commercial salmon catches in the Chignik Management Area by district, statistical area, and species, 1995.

District	Stat Area	Catch by Species in Number of Salmon ^{a,b}					Total
		Chinook	Sockeye	Coho	Pink	Chum	
Chignik Bay		3,008	1,083,707	54,646	106,939	14,588	1,262,888
	Total	3,008	1,083,707	54,646	106,939	14,588	1,262,888
Central	27220	104	14,273	5,331	56,813	8,417	84,938
	27230	251	203,265	24,457	240,826	52,382	521,181
	27240	48	5,694	1,899	13,923	2,847	24,411
	27250	297	144,284	9,348	133,631	37,157	324,717
	27262	131	47,920	5,940	24,552	6,258	84,801
	Total	831	415,436	46,975	469,745	107,061	1,040,048
Eastern	27260	48	13,020	170	3,729	1,355	18,322
	27280	2	550	288	4,282	1,590	6,712
	27290	0	316	0	0	15	331
	27292	58	34,956	0	561	5,114	40,689
	Total	108	48,842	458	8,572	8,074	66,054
Western	27374	624	44,718	49,017	502,081	113,632	710,072
	27380	33	6,462	541	2,589	947	10,572
	27390	160	23,695	32,793	246,414	33,109	336,171
	27394	73	4,999	5,468	40,634	10,585	61,759
	Total	890	79,874	87,819	791,718	158,273	1,118,574
Perryville	27540	424	96,133	90,706	678,836	92,884	958,983
	27550	0	53	1	2,188	69	2,311
	Total	424	96,186	90,707	681,024	92,953	961,294
Grand Total		5,261	1,724,045	280,605	2,057,998	380,949	4,448,858

^aDoes not include salmon caught for personal use.

^bDoes not include salmon caught with subsistence permit.

Table 4. Commercial salmon fishing catch and fishing effort by day in the Chignik Management Area, 1995.

Catch Date DD/MM ^a	Fishing Effort		Chinook		Sockeye		Coho		Pink		Chum		Total	
	Permits	Landings	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
8-Jun ^b	1	1	0	0	951	5,931	0	0	0	0	0	0	951	5,931
10-Jun ^b	1	1	0	0	2,826	18,175	0	0	0	0	0	0	2,826	18,175
11-Jun	78	80	25	521	53,309	346,485	0	0	18	79	1,217	8,782	54,569	355,867
12-Jun	76	83	46	808	42,973	272,604	0	0	4	16	1,566	12,390	44,589	285,818
13-Jun	81	94	94	2,126	39,368	246,575	0	0	34	86	710	5,316	40,206	254,103
14-Jun	75	76	54	1,283	30,764	196,986	0	0	48	148	1,466	10,368	32,332	208,785
15-Jun	78	86	45	827	30,608	184,957	2	15	87	281	1,380	9,774	32,122	195,854
16-Jun	75	75	10	160	16,495	104,869	5	35	41	129	539	4,001	17,090	109,194
18-Jun ^b	1	1	0	0	1,275	8,289	0	0	0	0	0	0	1,275	8,289
20-Jun ^b	1	1	0	0	3,070	19,882	0	0	0	0	0	0	3,070	19,882
21-Jun	88	96	86	1,934	92,239	598,030	6	32	274	808	2,666	19,188	95,271	619,992
22-Jun	77	79	22	460	31,743	203,392	5	26	119	358	1,774	12,994	33,663	217,230
24-Jun	82	82	51	1,167	39,462	252,665	9	51	226	632	781	6,194	40,529	260,709
25-Jun	97	102	80	1,493	55,242	342,221	17	106	742	2,266	2,880	21,949	58,961	368,035
30-Jun ^b	1	1	0	0	901	5,397	0	0	0	0	0	0	901	5,397
3-Jul	89	93	671	17,645	46,348	301,063	10	57	268	670	2,169	17,893	49,466	337,328
4-Jul	83	85	185	4,381	29,771	190,689	20	114	575	1,619	11,759	88,347	42,310	285,150
5-Jul	94	96	450	11,537	28,917	185,320	88	630	1,062	3,514	19,783	149,492	50,300	350,493
6-Jul	81	81	237	6,021	28,487	185,780	32	203	1,184	3,564	8,352	56,702	38,292	252,270
7-Jul	90	91	291	7,519	23,256	149,182	214	1,335	1,143	3,620	3,641	28,477	28,545	190,133
8-Jul	82	84	188	4,443	24,085	158,059	268	1,829	1,136	3,548	3,357	27,295	29,034	195,174
9-Jul	84	89	246	6,363	24,453	164,651	94	642	975	3,265	3,175	24,109	28,943	199,030
10-Jul	72	72	70	1,699	12,910	87,637	191	1,319	732	2,361	2,181	18,282	16,084	111,298
14-Jul	64	67	120	2,989	32,381	226,322	105	630	447	1,616	561	4,366	33,614	235,923
15-Jul	87	106	301	6,074	58,386	397,370	8,978	56,856	22,693	68,981	11,684	85,463	102,042	614,744
16-Jul	89	97	254	5,183	52,891	361,269	9,570	60,604	31,361	101,144	14,514	107,586	108,590	635,786
17-Jul	93	104	438	5,657	45,038	301,767	17,003	117,416	53,979	178,404	23,871	171,829	140,329	775,073
20-Jul	91	94	277	4,965	54,613	373,691	9,342	60,392	58,464	189,988	21,783	160,183	144,479	789,219
21-Jul	87	88	243	3,108	25,717	174,035	8,014	52,451	63,288	207,749	43,360	313,232	140,622	750,575
22-Jul	90	96	78	1,437	45,465	312,340	1,896	12,295	28,898	102,561	10,241	75,590	86,578	504,223
23-Jul	87	91	76	1,248	23,869	162,315	2,292	15,038	19,256	68,024	7,460	54,000	52,953	300,625
24-Jul	81	82	51	710	20,658	141,669	665	4,575	12,583	42,850	3,477	26,258	37,434	216,062
25-Jul	73	74	15	284	15,337	104,406	238	1,548	10,007	36,085	1,692	12,519	27,289	154,842
27-Jul	53	53	23	531	14497	99706	63	412	2308	8514	516	4000	17407	113163
28-Jul	95	98	81	1,265	27,390	186,619	6,189	41,949	82,598	284,005	13,153	94,934	129,411	608,772
29-Jul	87	90	76	1,206	21,129	144,473	7,982	55,024	98,807	350,855	16,020	116,710	144,014	668,268
30-Jul	86	91	96	1,297	19,823	133,536	6,861	48,485	132,954	454,140	14,641	107,488	174,375	744,946
31-Jul	83	86	32	561	22,931	142,833	8,887	53,614	159,352	585,712	17,903	124,490	209,105	907,210
1-Aug	76	79	28	591	19,329	130,255	6,037	43,556	142,085	500,219	13,902	104,097	181,381	778,718
2-Aug	84	84	27	517	12661	85895	6437	45534	66762	242279	11408	84431	97295	458656
4-Aug	82	87	17	230	20,420	137,259	11,047	70,825	152,799	563,668	9,423	68,885	193,706	840,867

-Continued-

Table 4. (page 2 of 2)

Catch Date DD/MM	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum		Total	
			Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
5-Aug	74	82	33	465	12,989	87,179	9,900	73,326	134,096	475,600	7,411	56,461	164,429	693,031
6-Aug	71	76	27	259	11,903	79,263	6,341	42,482	77,889	305,714	6,954	54,270	103,114	481,988
7-Aug	65	69	6	150	14,031	95,929	1,549	11,639	45,972	169,581	4,031	31,698	65,589	308,997
8-Aug	68	70	16	292	11,465	78,356	4,376	31,278	41,949	147,839	4,061	30,738	61,867	288,503
9-Aug	45	46	9	189	8,462	56,631	4,095	30,433	46,932	163,353	3,407	25,956	62,905	276,562
10-Aug	66	69	11	191	13,113	89,363	3,700	26,748	70,364	262,702	3,793	28,680	90,981	407,684
11-Aug	68	74	3	53	16,625	113,326	4,682	34,402	115,079	418,611	5,781	44,653	142,170	611,045
14-Aug	73	77	7	102	28,438	198,803	6,071	42,622	44,699	168,457	3,975	29,588	83,190	439,572
15-Aug	78	80	15	213	25,261	174,830	8,127	59,550	62,154	225,482	5,857	45,962	101,414	506,037
16-Aug	73	75	9	190	19,098	132,438	7,009	49,267	40,481	149,219	5,177	39,762	71,774	370,876
17-Aug	67	69	3	90	16,753	117,069	5,573	39,070	42,528	155,622	3,961	30,237	68,818	342,088
18-Aug	56	58	5	109	15,288	107,041	2,352	17,994	22,190	82,820	1,395	10,366	41,230	218,330
19-Aug	44	44	3	52	13,384	94,547	2,688	21,303	17,324	64,960	1,285	11,207	34,684	192,069
20-Aug	47	49	1	19	11,949	81,558	2,637	20,483	19,293	72,165	1,309	10,110	35,189	184,335
21-Aug	59	60	3	61	15,203	105,925	4,827	38,162	15,686	57,536	1,464	10,991	37,183	212,675
22-Aug	61	65	0	0	12,417	87,026	2,276	17,733	4,874	19,165	638	4,452	20,205	128,376
23-Aug	58	59	1	14	12,743	89,891	2,281	18,090	5,225	21,233	682	4,894	20,932	134,122
24-Aug	61	70	3	60	18,649	131,385	2,925	22,845	7,689	28,923	832	6,261	30,098	189,474
25-Aug	60	67	1	26	22,971	160,063	3,090	24,218	12,278	45,964	1,264	9,727	39,604	239,998
26-Aug	63	67	3	44	21,722	150,636	3,854	30,798	11,477	42,485	1,272	10,148	38,328	234,111
27-Aug	50	54	1	28	21,276	149,056	6,144	49,022	16,924	61,196	1,865	13,858	46,210	273,160
28-Aug	53	55	5	103	19,866	138,932	8,429	67,135	20,211	71,957	2,158	16,456	50,669	294,583
29-Aug	54	56	2	37	17,186	120,301	5,414	44,325	11,426	41,078	1,215	9,225	35,243	214,966
30-Aug	57	62	2	29	21,125	146,357	9,505	76,341	11,441	41,676	1,978	13,760	44,051	278,163
31-Aug	50	52	0	0	14,782	102,114	7,103	59,620	6,075	22,007	1,091	8,038	29,051	191,779
3-Sep	61	61	5	105	21,244	145,756	7,313	62,058	2,279	7,631	579	3,945	31,420	219,495
4-Sep	38	40	1	28	8,272	55,314	3,162	26,986	523	1,708	215	1,388	12,173	85,404
5-Sep	45	45	0	0	10,099	68,644	3,667	31,112	1,260	3,941	376	2,412	15,402	106,109
6-Sep	47	48	0	0	13,225	91,078	6,032	49,462	1,535	5,225	670	4,375	21,462	150,140
7-Sep	43	43	1	13	14,462	99,182	4,590	37,877	649	2,102	469	2,970	20,171	142,144
10-Sep	34	35	1	25	11,744	80,985	3,175	26,443	100	351	205	1,256	15,225	109,060
11-Sep	30	30	0	0	6,449	44,505	2,059	17,578	32	136	179	1,114	8,719	63,333
12-Sep	22	23	0	0	8,552	58,768	7,483	64,676	37	127	164	1,047	16,236	124,618
13-Sep	22	22	0	0	9,989	68,507	2,645	23,442	11	37	129	801	12,774	92,787
14-Sep	21	22	0	0	6,462	43,891	1,552	13,884	6	22	75	450	8,095	58,247
15-Sep	15	15	0	0	4,183	28,511	1,145	9,910	1	3	27	117	5,356	38,541
16-Sep	7	7	0	0	677	4,562	267	2,194	0	0	0	0	944	6,756
Total	100	5,112	5,261	111,187	1,724,045	11,522,321	280,605	2,062,086	2,057,998	7,350,386	380,949	2,814,987	4,448,858	23,860,967
Average Weight				21.1		6.7		7.4		3.6		7.4		

^a Does not include salmon that were caught for personal use.^b Test fishery within Chignik Lagoon.

Table 5. Commercial salmon catch and fishing effort by statistical area and day in the Chignik Management Area, 1995.^a

Stat Area	Catch Date DD/MM ^a	Fishing Effort ^b		Chinook		Sockeye		Coho		Pink		Chum		Total	
		Permits	Landings	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
25	27110 8-Jun ^c	1	1	0	0	951	5,931	0	0	0	0	0	0	951	5,931
	10-Jun ^c	1	1	0	0	2,826	18,175	0	0	0	0	0	0	2,826	18,175
	11-Jun	50	52	2	45	39,356	257,623	0	0	0	0	0	0	39,358	257,668
	12-Jun	52	57	4	94	28,672	182,013	0	0	0	0	0	0	28,676	182,107
	13-Jun	48	56	3	91	23,539	147,148	0	0	0	0	0	0	23,542	147,239
	14-Jun	48	49	8	207	16,948	109,153	0	0	0	0	0	0	16,956	109,360
	15-Jun	48	53	6	169	14,158	90,530	0	0	0	0	0	0	14,164	90,699
	16-Jun	46	46	0	0	10,935	70,980	0	0	0	0	0	0	10,935	70,980
	18-Jun ^c	1	1	0	0	1,275	8,289	0	0	0	0	0	0	1,275	8,289
	20-Jun ^c	1	1	0	0	3,070	19,882	0	0	0	0	0	0	3,070	19,882
	21-Jun	66	73	33	874	72,394	476,401	0	0	0	0	3	20	72,430	477,295
	22-Jun	55	56	4	102	17,412	114,014	0	0	0	0	0	0	17,416	114,116
	24-Jun	65	65	32	844	31,498	204,730	0	0	7	20	36	217	31,573	205,811
	25-Jun	64	67	31	741	26,828	171,929	0	0	27	88	168	1,230	27,054	173,988
	30-Jun ^c	1	1	0	0	901	5,397	0	0	0	0	0	0	901	5,397
	3-Jul	63	67	680	17,365	38,133	248,068	2	13	8	24	31	234	38,834	265,704
	4-Jul	54	56	141	3,743	19,650	128,344	5	34	85	219	169	1,368	20,050	133,708
	5-Jul	58	60	398	10,567	18,201	117,356	42	312	196	672	529	4,661	19,366	133,568
	6-Jul	53	53	203	5,379	13,499	87,590	0	0	19	56	10	69	13,731	93,094
	7-Jul	59	59	241	6,569	10,225	66,218	59	334	212	598	665	5,455	11,402	79,174
	8-Jul	47	48	117	2,871	10,443	68,293	19	125	46	140	250	2,003	10,875	73,432
	9-Jul	50	54	217	5,733	12,427	84,010	3	23	48	150	101	803	12,796	90,719
	10-Jul	42	42	52	1,283	7,181	48,364	15	109	61	186	64	503	7,373	50,445
	14-Jul	51	54	115	2,876	30,489	213,298	0	0	51	148	4	27	30,659	216,349
	15-Jul	47	64	164	3,611	35,698	251,315	25	180	218	828	56	431	36,161	256,365
	16-Jul	47	55	81	2,197	31,508	221,398	0	0	157	508	12	80	31,758	224,183
	17-Jul	50	55	56	1,240	20,501	142,073	22	177	303	1,040	14	101	20,896	144,631
	20-Jul	59	62	139	3,247	40,148	277,921	4	20	522	1,856	146	1,169	40,959	284,213
	21-Jul	52	52	32	784	13,761	94,751	1	6	378	1,279	36	283	14,208	97,103
	22-Jul	53	58	36	763	20,516	143,233	34	208	959	3,710	215	1,750	21,760	149,664
	23-Jul	48	49	24	605	12,656	86,881	39	275	744	2,646	168	1,020	13,631	91,427
	24-Jul	43	43	14	277	11,220	76,397	1	5	594	2,190	74	652	11,903	79,521
	25-Jul	40	40	4	91	10,698	73,214	18	112	961	3,682	156	1,250	11,837	78,349
	27-Jul	47	47	23	531	13,425	92,015	38	233	841	2,977	108	871	14,435	96,627

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Table 5. (page 2 of 14)

Stat Area	Catch Date DD/MM	Fishing Effort		Chinook		Sockeye		Coho		Pink		Chum		Total	
		Permits	Landings	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
27110	28-Jul	53	56	15	393	15,889	110,414	83	589	1,485	5,366	147	1,292	17,619	118,054
	29-Jul	45	45	14	322	8,649	59,149	6	49	1,422	5,469	317	2,615	10,408	67,604
	30-Jul	41	43	11	253	8,364	56,583	18	112	1,810	6,889	493	4,122	10,696	67,959
	31-Jul	38	38	13	263	8,313	56,717	7	47	1,638	6,205	266	2,215	10,237	65,447
	1-Aug	37	37	10	214	8,621	57,762	4	23	2,559	9,874	232	1,989	11,426	69,862
	2-Aug	41	41	15	364	8,643	45,699	3	21	3,348	13,502	1,307	10,206	11,316	69,792
	4-Aug	41	42	6	93	14,937	103,075	24	151	4,492	17,846	926	7,635	20,385	128,800
	5-Aug	35	38	7	192	8,000	54,519	79	544	3,564	13,777	540	4,222	12,190	73,254
	6-Aug	36	38	5	91	6,127	41,187	104	756	2,672	10,164	446	3,423	9,354	55,621
	7-Aug	37	39	6	150	7,903	54,781	187	1,339	7,398	28,710	630	4,923	16,124	89,903
	8-Aug	37	39	13	230	5,873	41,013	26	190	3,991	14,975	462	3,720	10,365	60,128
	9-Aug	21	21	2	75	3,434	23,755	38	291	2,155	8,578	454	3,571	6,083	36,270
	10-Aug	34	36	7	133	7,714	53,364	47	317	5,917	23,540	296	2,268	13,981	79,622
	11-Aug	30	30	2	43	8,656	59,494	147	1,095	5,407	21,183	411	3,213	14,623	85,028
	14-Aug	50	53	5	83	24,473	171,786	361	2,593	9,121	35,353	420	3,227	34,380	213,042
	15-Aug	47	49	10	159	16,495	115,649	747	5,665	9,470	36,826	626	4,617	27,348	162,916
	16-Aug	42	42	6	151	11,245	78,937	477	3,503	3,951	15,322	264	2,064	15,943	99,977
	17-Aug	36	37	3	90	9,516	66,574	535	3,852	2,631	10,517	286	2,174	12,971	83,207
	18-Aug	40	41	4	97	12,447	87,605	1,256	9,961	3,572	14,610	413	3,097	17,692	115,370
	19-Aug	37	37	2	37	10,986	77,186	1,200	9,626	3,117	12,432	334	2,459	15,639	101,740
	20-Aug	38	40	1	19	9,005	62,030	1,336	10,820	2,149	8,387	319	2,398	12,810	83,654
	21-Aug	43	44	3	61	11,224	78,630	1,756	13,974	2,426	9,463	245	1,827	15,654	103,955
	22-Aug	50	54	0	0	10,872	76,206	1,679	13,263	2,319	9,261	256	1,846	15,126	100,576
	23-Aug	43	44	0	0	9,305	65,631	1,276	10,361	1,598	6,534	166	1,219	12,345	83,745
	24-Aug	44	53	2	39	12,683	89,265	1,837	15,036	2,330	9,394	279	1,988	17,131	115,722
	25-Aug	40	47	0	0	13,696	96,142	1,290	10,839	2,159	8,531	153	1,152	17,298	116,664
	26-Aug	42	43	1	27	13,365	94,174	1,443	11,974	1,999	8,155	119	893	16,927	115,223
	27-Aug	32	35	1	28	11,560	81,441	1,656	13,584	1,405	5,621	101	777	14,723	101,451
	28-Aug	31	31	0	0	9,174	64,619	2,401	19,711	1,132	4,300	118	829	12,825	89,459
	29-Aug	31	33	0	0	10,398	72,327	2,848	23,951	852	3,332	89	636	14,187	100,246
	30-Aug	33	36	1	8	10,802	75,638	2,503	21,538	719	2,793	65	447	14,090	100,424
	31-Aug	29	31	0	0	7,503	52,962	3,327	29,195	558	2,047	44	310	11,432	84,514
	3-Sep	42	42	0	0	14,925	103,251	4,731	41,241	376	1,451	86	599	20,118	146,542
	4-Sep	26	28	1	28	3,888	26,812	2,222	19,843	131	452	27	199	6,269	47,334
27110	5-Sep	32	32	0	0	6,181	42,343	2,535	22,278	262	948	43	286	9,021	65,855

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Table 5. (page 3 of 14)

Stat Area	Catch Date DD/MM	Fishing Effort		Chinook		Sockeye		Coho		Pink		Chum		Total	
		Permits	Landings	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
	6-Sep	30	30	0	0	9,556	65,384	3,316	28,964	172	570	62	450	13,106	95,368
	7-Sep	33	33	1	13	12,035	82,724	2,856	24,605	142	512	65	492	15,099	108,346
	10-Sep	30	30	1	25	8,980	61,465	2,249	19,478	23	83	9	60	11,262	81,111
	11-Sep	28	28	0	0	5,873	40,410	1,600	14,176	16	77	15	105	7,504	54,768
	12-Sep	18	19	0	0	7,327	50,267	1,491	12,843	13	47	14	98	8,845	63,255
	13-Sep	15	15	0	0	9,469	64,973	1,891	16,715	0	0	5	32	11,365	81,720
	14-Sep	19	20	0	0	5,722	38,691	1,335	11,754	0	0	16	90	7,073	50,535
	15-Sep	14	14	0	0	4,060	27,661	1,125	9,710	1	3	7	47	5,193	37,421
	16-Sep	7	7	0	0	677	4,562	267	2,194	0	0	0	0	944	6,756
27110	Totals	82	3,188	3,008	76,580	1,083,707	7,335,791	54,646	460,937	106,939	416,116	14,588	114,029	1,262,888	8,403,453
	Avg. Wt.				25.5		6.8		8.4		3.9		7.8		
27220	14-Jun			9	189	166	998	0	0	0	0	0	0	175	1,187
	15-Jun			9	80	750	3,486	0	0	0	0	161	1,139	920	4,705
	16-Jun			0	0	143	935	5	35	2	5	79	483	229	1,458
	21-Jun			8	172	2,074	12,438	0	0	115	324	859	6,074	3,056	19,008
	22-Jun			0	0	359	2,301	0	0	0	0	0	0	359	2,301
	24-Jun			0	0	1,068	5,145	6	30	197	557	372	2,808	1,643	8,540
	25-Jun	6	6	26	411	3,087	16,899	8	57	119	405	593	4,491	3,833	22,263
	5-Jul	3	3	5	64	143	744	8	51	95	294	178	1,383	429	2,536
	7-Jul	4	4	12	95	633	3,158	88	551	306	959	484	3,743	1,523	8,506
	8-Jul	4	4	10	158	609	3,628	152	1,099	191	553	481	4,133	1,443	9,571
	9-Jul	3	3	0	0	156	982	7	49	23	74	89	637	275	1,742
	10-Jul	3	3	5	119	133	662	100	683	79	245	134	1,171	451	2,880
	17-Jul			1	38	115	733	35	226	36	148	92	670	279	1,815
	23-Jul			0	0	119	602	185	1,349	973	3,691	555	4,228	1,832	9,870
	24-Jul			0	0	22	123	46	280	255	1,033	53	420	376	1,856
	30-Jul			0	0	340	2,266	18	128	0	0	53	391	411	2,785
	31-Jul			0	0	328	2,180	17	105	753	3,091	258	1,993	1,356	7,369
	1-Aug			0	0	40	260	135	966	1,526	5,799	190	1,381	1,891	8,406
	2-Aug	3	3	0	0	153	1,018	206	1,464	1,658	6,637	159	1,232	2,176	10,351
	6-Aug	5	5	19	108	209	1,334	489	3,673	4,110	14,559	455	3,521	5,282	23,195
	7-Aug	4	4	0	0	295	1,830	609	4,818	15,499	46,394	928	8,235	17,331	61,277
	8-Aug	5	5	0	0	275	1,870	482	3,734	4,409	14,043	359	3,197	5,525	22,844
27220	10-Aug	3	3	0	0	74	480	378	2,770	4,871	16,866	199	1,451	5,522	21,567

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Table 5. (page 4 of 14)

Stat Area	Catch Date DD/MM	Fishing Effort		Chinook		Sockeye		Coho		Pink		Chum		Total	
		Permits	Landings	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
27220	11-Aug	8	8	0	0	518	3,270	1,004	7,490	12,717	50,054	990	8,145	15,229	68,959
	15-Aug			0	0	288	1,931	323	1,639	3,152	11,440	265	1,814	4,028	16,824
	16-Aug	3	3	0	0	100	600	300	2,227	4,505	19,590	297	2,299	5,202	24,716
	25-Aug			0	0	400	2,725	33	270	36	203	2	15	471	3,213
	26-Aug			0	0	1,111	7,338	283	2,310	688	2,503	34	260	2,116	12,411
	27-Aug			0	0	262	1,826	52	437	22	80	0	0	336	2,343
	29-Aug			0	0	223	1,597	85	766	158	637	12	80	478	3,080
	31-Aug			0	0	80	534	277	2,393	318	1,249	86	745	761	4,921
27220	Total	26	79	104	1,434	14,273	83,893	5,331	39,600	56,813	201,433	8,417	66,139	84,938	392,499
	Avg. Wt				13.8		5.9		7.4		3.5		7.9		
27230	11-Jun	10	10	4	94	3,593	22,764	0	0	4	34	39	267	3,640	23,159
	12-Jun	4	4	1	11	443	2,810	0	0	0	0	3	24	447	2,845
	13-Jun	10	11	4	86	931	5,817	0	0	0	0	34	267	969	6,170
	14-Jun	6	6	11	176	1,433	8,835	0	0	0	0	50	431	1,494	9,442
	15-Jun	9	9	4	83	2,821	17,457	0	0	0	0	148	1,267	2,973	18,807
	16-Jun	9	9	2	38	853	5,533	0	0	0	0	74	651	929	6,222
	21-Jun	3	3	5	106	800	5,096	0	0	0	0	49	417	854	5,619
	22-Jun	4	4	0	0	769	4,044	0	0	0	0	49	364	818	4,408
	24-Jun			0	0	638	3,745	0	0	0	0	41	327	679	4,072
	25-Jun	3	4	0	0	2,812	17,507	0	0	5	14	236	2,020	3,053	19,541
	3-Jul	17	17	9	234	5,998	38,824	3	16	143	369	1,521	12,513	7,674	51,956
	4-Jul	15	15	19	224	6,070	38,069	2	9	156	484	1,722	13,014	7,969	51,800
	5-Jul	13	13	16	261	4,632	29,847	0	0	183	617	1,023	7,197	5,854	37,722
	6-Jul	14	14	6	152	7,487	47,770	21	128	340	1,325	1,075	8,628	8,929	58,003
	7-Jul	14	14	28	687	6,550	42,669	18	132	167	543	1,595	12,399	8,358	56,430
	8-Jul	17	17	14	353	4,237	28,666	5	43	105	545	813	6,583	5,174	36,190
	9-Jul	18	19	15	313	5,803	39,595	7	51	234	809	1,236	9,799	7,295	50,567
	10-Jul	18	18	11	258	2,755	19,115	30	215	262	860	1,189	10,163	4,247	30,611
	14-Jul	11	11	5	113	1,185	8,174	26	189	288	1,062	475	3,619	1,979	13,157
	15-Jul	4	4	5	134	1,812	12,607	46	273	556	2,231	669	5,529	3,088	20,774
	16-Jul	3	3	4	105	1,540	10,855	27	175	407	1,588	918	7,312	2,896	20,035
	17-Jul	3	3	6	96	517	3,577	17	99	203	786	552	4,531	1,295	9,089
	20-Jul	6	6	5	138	2,581	18,311	74	433	1,138	4,238	1,154	9,713	4,952	32,833
27230	21-Jul	9	9	11	156	3,406	24,367	193	1,234	1,046	4,009	977	8,199	5,633	37,965

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Table 5. (page 5 of 14)

Stat Area	Catch Date DD/MM	Fishing Effort		Chinook		Sockeye		Coho		Pink		Chum		Total	
		Permits	Landings	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
29	27230 22-Jul	13	13	1	17	5,182	36,810	111	779	3,234	10,553	1,689	12,879	10,217	61,038
	23-Jul	22	24	26	357	5,249	36,379	559	3,331	3,632	13,049	2,158	16,328	11,624	69,444
	24-Jul	19	20	9	216	4,472	31,948	89	586	2,019	8,129	1,685	13,081	8,274	53,960
	25-Jul	19	20	3	60	2,523	17,510	52	351	2,802	11,278	808	6,276	6,188	35,475
	27-Jul	6	6	0	0	1,072	7,691	25	179	1,467	5,537	408	3,129	2,972	16,536
	28-Jul	13	13	4	46	4,598	31,249	261	1,769	6,507	26,033	1,987	13,911	13,357	73,008
	29-Jul	14	14	6	106	6,304	44,167	358	2,663	4,894	19,446	2,253	16,265	13,815	82,647
	30-Jul	14	15	2	58	4,041	28,451	162	1,151	4,361	17,726	1,968	15,198	10,534	62,584
	31-Jul	15	16	3	68	3,521	23,702	152	1,010	8,518	34,439	2,048	15,728	14,242	74,947
	1-Aug	13	13	0	0	2,733	18,218	168	1,148	8,504	33,025	1,673	12,725	13,078	65,116
	2-Aug	12	12	0	0	2,101	14,281	100	618	4,777	19,692	1,424	10,813	8,402	45,404
	4-Aug	9	10	1	21	1,730	11,381	197	1,431	11,625	48,090	1,055	8,183	14,608	69,106
	5-Aug	6	6	1	20	1,407	9,376	241	1,830	7,953	33,665	562	4,247	10,164	49,138
	6-Aug	12	12	0	0	2,332	15,639	612	4,451	14,286	53,216	1,287	9,367	18,517	82,673
	7-Aug	17	19	0	0	3,352	22,811	398	2,975	13,706	59,827	973	7,171	18,429	92,784
	8-Aug	12	12	1	30	2,148	14,501	199	1,576	10,444	40,832	603	4,548	13,395	61,487
	9-Aug	11	12	4	60	3,071	20,021	428	3,106	16,947	60,225	1,047	7,605	21,497	91,017
	10-Aug	13	13	0	0	2,291	15,529	282	2,129	15,749	64,423	947	6,804	19,269	88,885
	11-Aug	15	15	0	0	3,642	24,778	388	2,870	13,853	51,281	1,282	9,608	19,165	88,537
	14-Aug	11	11	0	0	2,199	14,755	331	2,566	10,312	41,493	649	5,012	13,491	63,826
	15-Aug	11	11	1	15	2,013	14,020	668	5,083	9,254	38,005	1,193	9,433	13,129	66,556
	16-Aug	11	11	0	0	2,398	16,817	509	3,963	5,804	24,227	773	5,625	9,484	50,632
	17-Aug	14	14	0	0	2,570	18,032	520	4,050	5,150	21,391	654	4,811	8,894	48,284
	18-Aug	12	13	0	0	2,134	14,553	555	3,892	4,547	19,054	659	4,863	7,895	42,362
	19-Aug	4	4	1	15	1,855	13,401	438	3,073	3,047	13,468	531	4,248	5,872	34,205
	20-Aug	5	5	0	0	1,710	11,084	566	3,938	3,102	14,327	582	4,694	5,960	34,043
	21-Aug	13	13	0	0	2,549	17,178	895	6,524	4,177	16,131	622	4,674	8,243	44,507
	22-Aug	10	10	0	0	1,246	8,610	431	3,278	2,167	8,664	330	2,288	4,174	22,840
	23-Aug	13	13	0	0	2,411	16,970	783	6,228	2,831	11,511	373	2,720	6,398	37,429
	24-Aug	14	14	1	21	4,494	31,401	728	5,456	3,641	14,030	290	2,345	9,154	53,253
	25-Aug	13	13	0	0	5,538	37,584	1,021	8,090	5,914	22,914	596	4,254	13,069	72,842
	26-Aug	13	16	1	9	5,308	35,596	1,489	12,048	6,462	23,752	841	6,698	14,101	78,103
	27-Aug	10	11	0	0	4,646	31,488	1,598	13,134	3,828	14,743	534	3,861	10,606	63,226
	28-Aug	13	13	0	0	4,869	32,531	1,648	13,266	3,651	13,909	549	4,491	10,717	64,197
	27230 29-Aug	15	15	1	18	3,190	21,740	741	6,282	2,244	8,557	351	2,766	6,527	39,363

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Table 5. (page 6 of 14)

Stat Area	Catch Date DD/MM	Fishing Effort		Chinook		Sockeye		Coho		Pink		Chum		Total	
		Permits	Landings	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
27230	30-Aug	13	13	0	0	2,942	20,104	1,394	11,542	1,628	6,487	293	2,071	6,257	40,204
	31-Aug	12	12	0	0	2,961	20,016	1,178	9,736	1,457	5,495	336	2,454	5,932	37,701
	3-Sep	12	12	0	0	4,384	29,335	1,360	11,308	578	2,150	238	1,717	6,560	44,510
	4-Sep	11	11	0	0	4,249	27,544	893	6,773	268	883	176	1,118	5,586	36,318
	5-Sep	12	12	0	0	3,331	22,136	482	4,027	92	276	90	646	3,995	27,085
	6-Sep	14	14	0	0	2,320	16,114	381	3,208	103	360	100	830	2,904	20,512
	7-Sep	6	6	0	0	1,000	6,613	177	1,504	47	173	43	267	1,267	8,557
	10-Sep			0	0	298	2,010	136	1,114	0	0	15	87	449	3,211
	12-Sep			0	0	600	4,061	101	845	3	5	18	129	722	5,040
	13-Sep			0	0	299	1,967	101	799	4	12	27	137	431	2,915
	14-Sep			0	0	193	1,310	62	580	0	0	0	0	255	1,890
27230	15-Sep			0	0	123	850	20	200	0	0	20	70	163	1,120
	Total	49	763	251	4,955	203,265	1,368,116	24,457	189,457	240,826	951,997	52,382	401,409	521,181	2,915,934
	Avg. Wt.				19.7		6.7		7.7		4.0		7.7		
27240	24-Jun			1	21	162	813	0	0	0	0	13	90	176	924
	4-Jul			10	149	1,525	8,218	7	35	87	256	397	2,596	2,026	11,254
	5-Jul			3	25	371	2,375	9	84	108	300	204	1,858	695	4,642
	22-Jul			12	180	1,051	7,576	733	4,712	4,314	19,416	1,181	9,574	7,291	41,458
	23-Jul	4	4	11	72	1,104	6,988	786	5,240	4,389	15,345	487	3,163	6,777	30,808
	24-Jul	6	6	10	112	1,298	8,386	292	2,031	3,724	11,900	503	3,534	5,827	25,963
27240	25-Jul			1	30	183	1,192	72	466	1,301	4,954	62	473	1,619	7,115
	Total	9	19	48	589	5,694	35,548	1,899	12,568	13,923	52,171	2,847	21,288	24,411	122,164
	Avg. Wt.				12.3		6.2		6.6		3.7		7.5		
27250	11-Jun	5	5	8	201	1,820	11,554	0	0	0	0	21	143	1,849	11,898
	12-Jun	11	13	28	457	7,350	45,494	0	0	4	16	132	1,072	7,514	47,039
	13-Jun	10	10	68	1,503	8,027	50,399	0	0	20	43	476	3,504	8,591	55,449
	14-Jun	12	12	13	355	8,076	52,854	0	0	43	133	1,156	8,178	9,288	61,520
	15-Jun	13	16	11	165	9,772	53,414	2	15	50	168	834	5,740	10,669	59,502
	16-Jun	16	16	3	53	3,878	23,194	0	0	22	65	253	1,902	4,155	25,214
	21-Jun	6	6	6	141	7,766	46,697	6	32	105	323	828	5,998	8,711	53,191
	22-Jun	11	12	12	238	8,223	51,466	3	15	85	264	1,104	7,981	9,427	59,964
	24-Jun	10	10	11	233	5,356	33,729	3	21	18	45	300	2,578	5,688	36,606
27250	25-Jun	16	16	14	229	7,187	44,444	5	25	81	236	636	5,373	7,923	50,307

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Table 5. (page 7 of 14)

Stat Area	Catch Date DD/MM	Fishing Effort		Chinook		Sockeye		Coho		Pink		Chum		Total	
		Permits	Landings	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
31	27250 3-Jul	8	8	2	46	2,213	14,144	5	28	117	277	616	5,143	2,953	19,638
	4-Jul	6	6	6	132	2,366	15,070	6	36	239	632	715	5,019	3,332	20,889
	5-Jul	12	12	11	234	4,578	28,719	27	167	412	1,439	1,137	9,145	6,165	39,704
	6-Jul	9	9	6	133	5,036	31,937	4	26	600	1,691	1,154	8,164	6,800	41,951
	7-Jul	10	10	4	66	4,241	27,038	31	182	298	1,008	746	5,576	5,320	33,870
	8-Jul	10	10	15	291	6,614	43,294	76	455	575	1,705	1,534	12,380	8,814	58,125
	9-Jul	10	10	11	242	4,992	32,596	75	508	556	1,854	1,549	11,340	7,183	46,540
	10-Jul	7	7	1	26	1,733	11,517	25	167	214	728	581	4,705	2,554	17,143
	15-Jul	7	7	3	75	3,162	20,379	156	1,021	937	3,065	903	6,856	5,161	31,396
	16-Jul	7	7	7	159	3,508	23,168	191	1,172	968	3,142	1,727	13,503	6,401	41,144
	17-Jul	7	7	2	30	1,533	10,147	162	920	3,395	11,373	850	6,645	5,942	29,115
	20-Jul	4	4	0	0	1,338	8,813	105	651	874	2,898	740	5,403	3,057	17,765
	21-Jul	3	3	4	87	929	6,140	96	619	477	1,658	582	4,430	2,088	12,934
	22-Jul	7	8	0	0	3,520	24,938	265	1,736	3,024	12,759	2,102	16,417	8,911	55,850
	23-Jul	9	10	13	164	3,459	22,783	644	4,350	9,058	31,678	3,924	28,002	17,098	86,977
	24-Jul	9	9	18	105	2,706	18,291	209	1,457	5,660	18,423	1,058	7,829	9,651	46,105
	25-Jul	10	10	5	65	1,382	9,150	81	520	4,743	15,445	551	3,963	6,762	29,143
	29-Jul	3	3	5	73	1,675	10,937	342	2,302	8,629	29,717	891	6,658	11,542	49,687
	30-Jul	3	3	1	30	1,047	7,086	257	1,782	11,116	39,081	964	6,980	13,385	54,959
	31-Jul	3	3	0	0	1,242	8,822	219	1,564	13,936	56,909	1,118	8,392	16,515	75,687
	1-Aug	3	3	5	138	947	6,619	133	932	8,054	30,265	724	5,296	9,863	43,250
	2-Aug	4	4	1	8	859	5,802	163	1,122	3,157	12,561	901	6,924	5,081	26,417
	4-Aug			0	0	441	3,002	40	286	2,676	9,637	370	2,803	3,527	15,728
	5-Aug			0	0	753	4,939	75	537	6,570	24,914	521	4,066	7,919	34,456
	6-Aug	5	5	0	0	987	6,450	375	2,539	6,829	24,921	704	5,404	8,895	39,314
	7-Aug	6	6	0	0	2,031	13,581	320	2,260	7,469	27,017	864	6,598	10,684	49,456
	8-Aug	5	5	1	7	1,706	11,190	295	1,909	5,670	23,569	582	3,877	8,254	40,552
	9-Aug			0	0	507	3,245	73	444	1,473	7,071	114	733	2,167	11,493
	10-Aug	4	4	0	0	1,397	9,199	344	2,330	6,101	24,600	568	3,813	8,410	39,942
	11-Aug	4	4	0	0	1,526	10,097	138	976	5,172	20,119	597	4,617	7,433	35,809
	14-Aug			0	0	193	1,315	159	1,115	1,096	3,835	69	484	1,517	6,749
	15-Aug	4	4	0	0	1,285	8,591	613	4,283	4,041	15,318	416	3,348	6,355	31,540
	16-Aug	5	5	2	36	877	5,893	254	1,850	2,246	9,051	355	2,458	3,734	19,288
	23-Aug			0	0	540	3,686	127	891	593	2,518	75	601	1,335	7,696
27250 24-Aug				0	0	442	3,095	134	875	748	2,395	94	706	1,418	7,071

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Stat Area	Catch Date DD/MM	Fishing Effort		Chinook		Sockeye		Coho		Pink		Chum		Total	
		Permits	Landings	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
27250	25-Aug			0	0	1,169	8,186	357	2,328	1,464	4,687	133	1,010	3,123	16,211
	26-Aug			0	0	701	4,919	343	2,241	1,051	3,367	121	908	2,216	11,435
	27-Aug			0	0	680	4,762	327	2,133	793	2,539	118	891	1,918	10,325
	28-Aug			0	0	570	3,996	473	3,081	759	2,431	174	1,307	1,976	10,815
	29-Aug			0	0	504	3,530	356	2,320	616	1,974	179	1,354	1,655	9,178
	30-Aug			0	0	379	2,657	725	4,720	442	1,418	177	1,335	1,723	10,130
	31-Aug			0	0	540	3,620	336	2,603	328	1,186	85	693	1,289	8,102
	3-Sep	3	3	0	0	521	3,358	193	1,547	27	80	34	260	775	5,245
27250	Total	35	327	297	5,722	144,284	919,946	9,348	63,093	133,631	492,248	37,157	278,505	324,717	1,759,514
	Avg. Wt.				19.3		6.4		6.7		3.7		7.5		
27260	11-Jun	4	4	0	0	1,717	10,736	0	0	0	0	0	0	1,717	10,736
	12-Jun			0	0	474	2,827	0	0	0	0	0	0	474	2,827
	13-Jun	7	10	13	326	4,277	27,328	0	0	7	23	23	187	4,320	27,864
	14-Jun	4	4	5	141	1,746	10,683	0	0	0	0	143	1,017	1,894	11,841
	15-Jun	3	3	12	270	1,617	10,287	0	0	18	53	120	748	1,767	11,358
	21-Jun	3	3	10	275	1,501	9,203	0	0	3	10	67	591	1,581	10,079
	24-Jun	3	3	7	69	740	4,503	0	0	4	10	19	174	770	4,756
	30-Jul			1	10	203	1,380	30	163	758	2,426	133	890	1,125	4,869
	7-Aug			0	0	450	2,926	35	247	1,900	7,633	636	4,771	3,021	15,577
	10-Aug			0	0	20	122	5	25	121	481	14	97	160	725
27260	17-Aug			0	0	275	1,865	100	724	918	3,672	200	1,492	1,493	7,753
	Total	12	33	48	1,091	13,020	81,860	170	1,159	3,729	14,308	1,355	9,967	18,322	108,385
	Avg. Wt.				22.7		6.3		6.8		3.8		7.4		
27262	11-Jun			1	11	1,236	6,567	0	0	4	15	19	134	1,260	6,727
	12-Jun			3	42	1,518	8,933	0	0	0	0	66	550	1,587	9,525
	13-Jun			5	113	1,487	9,251	0	0	4	14	8	48	1,504	9,426
	14-Jun	4	4	8	215	2,395	14,463	0	0	5	15	117	742	2,525	15,435
	15-Jun	3	3	3	60	1,490	9,783	0	0	19	60	117	880	1,629	10,783
	16-Jun	3	3	5	69	686	4,227	0	0	17	59	133	965	841	5,320
	21-Jun	3	3	1	55	1,637	11,010	0	0	0	0	86	603	1,724	11,668
	22-Jun	3	3	0	0	1,947	12,407	2	11	23	64	110	849	2,082	13,331
	25-Jun			1	10	366	2,348	4	24	24	72	75	519	470	2,973
27262	3-Jul			0	0	4	27	0	0	0	0	1	3	5	30

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Stat Area	Catch Date DD/MM	Fishing Effort		Chinook		Sockeye		Coho		Pink		Chum		Total	
		Permits	Landings	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
33	27262 4-Jul			0	0	160	988	0	0	8	28	1	4	169	1,020
	5-Jul			3	60	985	6,441	2	16	68	192	177	1,224	1,235	7,933
	6-Jul			17	297	2,462	18,462	7	49	225	492	267	1,987	2,978	21,287
	7-Jul	4	4	6	102	1,607	10,099	18	136	160	512	151	1,304	1,942	12,153
	8-Jul	5	5	32	770	2,182	14,178	16	107	219	605	279	2,196	2,728	17,856
	9-Jul	3	3	3	75	1,075	7,468	2	11	114	378	200	1,530	1,394	9,462
	10-Jul			1	13	1,108	7,979	21	145	116	342	213	1,740	1,459	10,219
	14-Jul			0	0	707	4,850	79	441	108	406	82	720	976	6,417
	15-Jul	4	5	8	162	1,652	11,869	223	1,311	328	1,159	264	2,045	2,475	16,546
	16-Jul	3	3	0	0	441	2,987	11	65	48	164	50	437	550	3,653
	22-Jul	4	4	14	214	2,178	14,834	49	320	1,787	6,417	394	2,638	4,422	24,423
	23-Jul	3	3	2	50	1,282	8,682	79	493	460	1,615	168	1,259	1,991	12,099
	24-Jul	3	3	0	0	940	6,524	28	216	331	1,175	104	742	1,403	8,657
	25-Jul			2	38	551	3,340	15	99	200	726	115	557	883	4,760
	28-Jul			0	0	675	4,307	40	291	1,400	4,933	350	1,908	2,465	11,439
	29-Jul			0	0	220	2,042	15	94	450	1,657	108	800	793	4,593
	30-Jul			0	0	36	244	0	0	132	527	15	104	183	875
	31-Jul			0	0	336	2,129	13	82	543	2,173	30	118	922	4,502
	2-Aug			0	0	185	1,220	3	29	1,655	6,158	89	750	1,932	8,157
	4-Aug			0	0	300	1,853	35	195	1,349	5,396	145	1,026	1,829	8,470
	5-Aug			0	0	133	907	24	142	873	2,795	54	387	1,084	4,231
	8-Aug			0	0	474	3,222	20	142	1,413	4,946	76	530	1,983	8,840
	9-Aug			0	0	154	1,050	15	84	525	1,680	55	388	749	3,202
	17-Aug			0	0	632	4,315	151	980	1,126	3,602	128	1,050	2,037	9,947
	18-Aug			1	12	410	2,723	280	1,999	790	2,674	125	936	1,606	8,344
	20-Aug			0	0	700	4,553	240	1,681	602	2,411	75	516	1,617	9,161
	21-Aug			0	0	450	2,966	160	1,120	303	1,212	65	490	978	5,788
	22-Aug			0	0	299	2,210	166	1,192	388	1,240	52	318	905	4,960
	23-Aug			1	14	487	3,604	95	610	203	670	68	354	854	5,252
	24-Aug			0	0	1,030	7,624	226	1,478	970	3,104	169	1,222	2,395	13,428
	25-Aug	4	4	1	26	2,168	15,426	389	2,691	2,705	9,629	380	3,296	5,643	31,068
	26-Aug	4	4	1	8	1,237	8,609	296	2,225	1,277	4,708	157	1,389	2,968	16,939
	27-Aug	3	3	0	0	1,843	12,847	531	3,488	1,275	4,607	231	1,715	3,880	22,657
	28-Aug	4	6	5	103	1,942	13,603	767	5,318	1,124	3,904	276	2,019	4,114	24,947
27262	29-Aug			1	19	1,144	7,842	274	1,891	448	1,697	156	1,174	2,023	12,623

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Table 5. (page10 of 14)

Stat Area	Catch Date DD/MM	Fishing Effort		Chinook		Sockeye		Coho		Pink		Chum		Total	
		Permits	Landings	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
27262	30-Aug	4	4	1	21	791	5,494	542	3,508	322	1,059	84	638	1,740	10,720
	31-Aug	3	3	0	0	1,126	7,456	490	3,830	375	1,389	112	836	2,103	13,511
	3-Sep			5	105	433	2,860	344	2,100	36	115	32	200	850	5,380
	7-Sep			0	0	619	4,106	268	2,226	0	0	29	176	916	6,508
	Total	14	112	131	2,664	47,920	320,929	5,940	40,840	24,552	86,796	6,258	46,016	84,801	497,245
	Avg. Wt.				20.3		6.7		6.9		3.5		7.4		
27280	5-Aug			2	24	19	114	6	32	1,110	4,719	0	0	1,137	4,889
	6-Aug			0	0	0	0	1	6	482	1,445	1,372	13,579	1,855	15,030
	9-Aug			0	0	531	3,625	281	1,731	2,690	8,340	218	1,470	3,720	15,166
	Total			2	24	550	3,739	288	1,769	4,282	14,504	1,590	15,049	6,712	35,085
	Avg. Wt.				12		7		6		3		9		
27290	21-Jun			0	0	316	1,894	0	0	0	0	15	98	331	1,992
	Total			0	0	316	1,894	0	0	0	0	15	98	331	1,992
	Avg. Wt.				0.0		6.0		0.0		0.0		6.5		
27292	11-Jun	7	7	10	170	5,587	37,241	0	0	10	30	1,138	8,238	6,745	45,679
	12-Jun	5	5	10	204	4,516	30,527	0	0	0	0	1,365	10,744	5,891	41,475
	13-Jun	4	4	1	7	1,107	6,632	0	0	3	6	169	1,310	1,280	7,955
	21-Jun	4	4	23	311	5,751	35,291	0	0	51	151	759	5,387	6,584	41,140
	22-Jun	3	3	6	120	3,033	19,160	0	0	11	30	511	3,800	3,561	23,110
	25-Jun	7	8	8	102	14,962	89,094	0	0	486	1,451	1,172	8,316	16,628	98,963
	Total	11	31	58	914	34,956	217,945	0	0	561	1,668	5,114	37,795	40,689	258,322
	Avg. Wt.				15.8		6.2		0.0		3.0		7.4		
	15-Jul	5	5	53	596	6,711	40,871	2,077	13,641	10,040	30,120	4,406	31,376	23,287	116,604
	16-Jul	9	9	73	1,171	8,507	54,292	2,846	18,422	20,656	66,121	6,628	48,172	38,710	188,178
27374	17-Jul	10	13	104	1,471	10,742	68,293	5,004	32,465	35,093	111,683	13,423	96,823	64,366	310,735
	20-Jul	11	11	80	755	3,721	23,988	4,481	27,354	41,457	134,058	14,861	109,800	64,600	295,955
	21-Jul	15	16	145	1,645	2,968	19,808	5,013	32,970	46,453	151,943	36,474	262,183	91,051	468,549
	22-Jul			2	70	645	4,360	285	1,837	2,177	7,506	2,475	16,379	5,584	30,152
	28-Jul	18	18	41	519	1,581	10,417	2,890	19,660	38,753	136,045	6,168	44,982	49,433	211,623
	29-Jul	9	9	22	279	932	5,819	3,439	24,053	34,808	127,927	4,462	31,398	43,663	189,476
	30-Jul	10	10	55	571	816	5,286	2,747	19,516	31,195	105,878	3,812	26,924	38,625	158,175

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Table 5. (page 11 of 14)

Stat Area	Catch Date DD/MM	Fishing Effort		Chinook		Sockeye		Coho		Pink		Chum		Total	
		Permits	Landings	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
27374	31-Jul	9	10	9	141	2,061	10,871	4,292	22,815	47,710	157,161	5,553	32,803	59,625	223,791
	1-Aug	8	8	6	72	913	6,223	2,742	20,506	47,552	159,035	3,758	28,939	54,971	214,775
	2-Aug	12	12	7	80	1,654	10,758	2,908	20,882	39,878	139,062	5,427	38,369	49,874	209,151
	4-Aug	11	11	8	86	367	2,316	1,997	14,379	42,779	138,696	1,681	12,511	46,832	167,988
	5-Aug	10	13	19	161	485	2,907	2,560	19,883	44,897	151,053	2,494	20,137	50,455	194,141
	6-Aug			0	0	257	1,636	551	3,552	4,492	16,527	300	2,244	5,600	23,959
	15-Aug			0	0	115	774	759	5,548	3,261	12,264	225	1,866	4,360	20,452
	16-Aug	3	3	0	0	663	4,443	3,217	21,612	5,169	15,515	826	6,214	9,875	47,784
27374	17-Aug	3	3	0	0	1,582	11,120	1,209	7,886	5,711	18,568	659	4,982	9,161	42,556
	Total	35	156	624	7,617	44,718	284,182	49,017	326,981	502,081	1,679,162	113,632	816,102	710,072	3,114,044
	Avg. Wt.				12.2		6.4		6.7		3.3		7.2		
27380	16-Jul	6	6	27	286	3,028	20,637	52	339	1,171	3,898	408	3,226	4,686	28,386
	17-Jul			0	0	1,528	10,387	41	244	609	2,140	196	1,690	2,374	14,461
	20-Jul			6	106	1,359	8,922	35	220	803	2,844	284	2,200	2,487	14,292
	13-Sep	3	3	0	0	0	0	258	2,589	0	0	0	0	258	2,589
27380	14-Sep			0	0	547	3,890	155	1,550	6	22	59	360	767	5,822
	Total	11	14	33	392	6,462	43,836	541	4,942	2,589	8,904	947	7,476	10,572	65,550
	Avg. Wt.				11.9		6.8		9.1		3.4		7.9		
27390	15-Jul	10	10	27	543	5,225	34,804	850	5,818	3,945	13,546	2,258	16,927	12,305	71,638
	16-Jul			0	0	184	989	121	823	425	1,457	112	664	842	3,933
	17-Jul	7	7	34	448	3,044	20,894	963	6,355	3,401	11,696	2,761	20,307	10,203	59,700
	20-Jul	3	3	11	138	635	4,084	1,157	7,492	2,198	7,704	1,123	8,275	5,124	27,693
	21-Jul	7	7	51	436	1,525	9,252	2,561	16,573	11,428	38,343	4,715	34,104	20,280	98,708
	22-Jul			2	17	20	140	10	60	70	369	180	1,231	282	1,817
	29-Jul	3	3	4	54	315	2,117	1,071	6,906	12,116	39,338	1,146	8,313	14,652	56,728
	30-Jul	3	3	9	126	377	2,360	1,334	8,722	16,360	57,097	1,696	11,812	19,776	80,117
	31-Jul	7	7	6	70	1,390	8,714	1,900	14,458	30,610	104,937	4,349	35,088	38,255	163,267
	1-Aug	5	5	5	131	1,033	6,639	906	6,857	20,046	67,846	2,154	15,619	24,144	97,092
	2-Aug	4	4	1	15	222	1,498	1,024	6,670	6,469	23,902	1,104	8,425	8,820	40,510
	4-Aug	7	7	0	0	510	3,215	2,463	15,911	17,685	60,322	1,367	9,467	22,025	88,915
	5-Aug	13	14	2	50	1,036	6,548	4,615	34,299	50,487	179,451	2,207	16,163	58,347	236,511
27390	6-Aug	6	6	0	0	300	1,876	1,535	9,858	14,675	71,056	871	5,855	17,381	88,645

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Table 5. (page 12 of 14)

Stat Area	Catch Date DD/MM	Fishing Effort		Chinook		Sockeye		Coho		Pink		Chum		Total		
		Permits	Landings	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	
27390	8-Aug	3	3	0	0	356	2,325	970	7,097	1,557	5,998	664	5,207	3,547	20,627	
	9-Aug	3	3	1	6	263	1,684	1,247	9,995	3,977	11,933	426	3,843	5,914	27,461	
	10-Aug	4	5	1	7	731	4,653	1,041	8,270	11,365	36,674	777	6,729	13,915	56,333	
	11-Aug			0	0	92	586	299	2,391	5,501	19,254	296	2,657	6,188	24,888	
	14-Aug	6	6	2	19	455	3,087	3,543	25,329	10,361	38,752	1,490	11,661	15,851	78,848	
	15-Aug	5	5	4	39	2,571	17,500	2,251	15,733	8,600	32,230	1,358	10,370	14,784	75,872	
	16-Aug	3	4	0	0	2,230	14,737	1,009	7,148	4,802	18,696	906	7,162	8,947	47,743	
	17-Aug	7	7	0	0	788	5,291	1,537	10,577	10,271	39,930	977	7,794	13,573	63,592	
	30-Aug			0	0	351	2,355	325	2,693	0	0	140	1,063	816	6,111	
27390	3-Sep			0	0	42	260	61	691	65	240	32	203	200	1,394	
Total		35	116	160	2,099	23,695	155,608	32,793	230,726	246,414	880,771	33,109	248,939	336,171	1,518,143	
Avg. Wt.					13.1		6.6		7.0		3.6		7.5			
27394	15-Jul			0	0	468	2,639	241	1,610	1,207	3,416	940	6,294	2,856	13,959	
	16-Jul	7	7	11	136	1,479	9,163	684	4,871	2,541	9,166	2,543	18,150	7,258	41,486	
	17-Jul	7	8	31	254	1,623	10,620	608	3,803	1,542	5,702	1,615	12,300	5,419	32,679	
	22-Jul			0	0	88	532	116	679	303	1,221	191	1,553	698	3,985	
	28-Jul			1	8	225	1,441	604	4,002	4,194	17,143	881	6,496	5,905	29,090	
	29-Jul	3	4	17	179	410	2,685	1,234	8,586	7,284	25,337	1,777	14,815	10,722	51,602	
	30-Jul			7	81	54	397	411	2,292	3,521	10,244	660	4,717	4,653	17,731	
	31-Jul			0	0	10	59	14	92	64	256	7	73	95	480	
	2-Aug			2	19	53	356	136	949	1,296	4,536	121	843	1,608	6,703	
	5-Aug			0	0	7	50	17	72	157	534	4	31	185	687	
	10-Aug			3	51	251	1,635	283	2,133	3,906	13,544	256	2,076	4,699	19,439	
	11-Aug			0	0	85	546	210	1,576	3,731	13,436	221	1,729	4,247	17,287	
	15-Aug			0	0	123	852	502	3,274	6,089	18,341	522	3,639	7,236	26,106	
	27394	16-Aug	3	3	1	3	123	728	408	2,926	4,799	16,954	847	7,107	6,178	27,718
	Total		19	39	73	731	4,999	31,703	5,468	36,865	40,634	139,830	10,585	79,823	61,759	288,952
Avg. Wt.					10.0		6.3		6.7		3.4		7.5			
27540	4-Jul	5	5	9	133	0	0	0	0	0	0	8,755	66,346	8,764	66,479	
	5-Jul	4	4	14	326	7	38	0	0	0	0	16,535	124,024	16,556	124,388	
	6-Jul	3	3	5	60	3	21	0	0	0	0	5,846	37,854	5,854	37,935	
	15-Jul	8	9	41	953	3,658	22,886	5,360	33,002	5,462	14,616	2,188	16,005	16,709	87,462	
27540	16-Jul	6	6	51	1,129	2,696	17,780	5,638	34,737	4,988	15,100	2,116	16,042	15,489	84,788	

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Table 5. (page 13 of 14)

Stat Area	Catch Date DD/MM	Fishing Effort		Chinook		Sockeye		Coho		Pink		Chum		Total	
		Permits	Landings	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
27540	17-Jul	7	8	204	2,080	5,435	35,043	10,151	73,127	9,397	33,836	4,368	28,762	29,555	172,848
	20-Jul	6	6	36	581	4,831	31,652	3,486	24,222	11,472	36,390	3,475	23,623	23,300	116,468
	21-Jul			0	0	3,130	19,717	150	1,049	3,506	10,517	576	4,033	7,362	35,316
	22-Jul	7	7	11	176	12,265	79,917	293	1,964	13,030	40,610	1,814	13,169	27,413	135,836
	28-Jul	8	8	20	299	4,422	28,791	2,311	15,638	30,259	94,485	3,620	26,345	40,632	165,558
	29-Jul	10	11	8	193	2,624	17,557	1,517	10,371	29,204	101,964	5,066	35,846	38,419	165,931
	30-Jul	11	12	10	168	4,545	29,483	1,884	14,619	63,701	214,272	4,847	36,350	74,987	294,892
	31-Jul	9	9	1	19	5,730	29,639	2,273	13,441	55,580	220,541	4,274	28,080	67,858	291,720
	1-Aug	10	12	2	36	5,042	34,534	1,949	13,124	53,844	194,375	5,171	38,148	66,008	280,217
	2-Aug	4	4	1	31	738	4,904	1,893	13,772	2,336	8,993	807	6,348	5,775	34,048
	4-Aug	11	14	2	30	2,135	12,417	6,291	38,472	72,193	283,681	3,879	27,260	84,500	361,860
	5-Aug	6	6	2	18	1,149	7,819	2,283	15,987	18,485	64,692	1,029	7,208	22,948	95,724
	6-Aug	7	7	3	60	1,691	11,141	2,674	17,647	30,343	113,826	1,519	10,877	36,230	153,551
	8-Aug	5	5	1	25	633	4,235	2,384	16,630	14,465	43,476	1,315	9,659	18,798	74,025
	9-Aug	5	5	2	48	502	3,251	2,013	14,782	19,165	65,526	1,093	8,346	22,775	91,953
	10-Aug	5	5	0	0	635	4,381	1,320	8,774	22,334	82,574	736	5,442	25,025	101,171
	11-Aug	8	13	1	10	2,106	14,555	2,496	18,004	68,698	243,284	1,984	14,684	75,285	290,537
	14-Aug	5	6	0	0	1,118	7,860	1,677	11,019	13,809	49,024	1,347	9,204	17,951	77,107
	15-Aug	6	6	0	0	2,371	15,513	2,264	18,325	18,287	61,058	1,252	10,875	24,174	105,771
	16-Aug	4	4	0	0	1,462	10,283	835	6,038	9,205	29,864	909	6,833	12,411	53,018
	17-Aug	6	6	0	0	1,390	9,872	1,521	11,001	16,721	57,942	1,057	7,934	20,689	86,749
	18-Aug	3	3	0	0	297	2,160	261	2,142	13,281	46,482	198	1,470	14,037	52,254
	19-Aug	3	3	0	0	543	3,960	1,050	8,604	11,160	39,060	420	4,500	13,173	56,124
	20-Aug	3	3	0	0	534	3,891	495	4,044	13,440	47,040	333	2,502	14,802	57,477
	21-Aug			0	0	980	7,151	2,016	16,544	8,780	30,730	532	4,000	12,308	58,425
	27-Aug			0	0	2,285	16,692	1,980	16,246	9,601	33,606	881	6,614	14,747	73,158
	28-Aug	3	3	0	0	3,311	24,183	3,140	25,759	13,545	47,413	1,041	7,810	21,037	105,165
	29-Aug			0	0	1,727	13,265	1,110	9,115	7,108	24,881	428	3,215	10,373	50,476
	30-Aug	3	5	0	0	5,860	40,109	4,016	32,340	8,330	29,919	1,219	8,206	19,425	110,574
	31-Aug	3	3	0	0	2,572	17,526	1,495	11,863	3,039	10,641	428	3,000	7,534	43,030
	3-Sep			0	0	939	6,692	624	5,171	1,197	3,595	157	966	2,917	16,424
	4-Sep			0	0	135	958	47	350	124	373	12	71	318	1,752
	5-Sep			0	0	587	4,165	850	4,807	906	2,717	243	1,480	2,386	13,169
	6-Sep	3	4	0	0	1,349	9,580	2,335	17,290	1,260	4,295	508	3,095	5,452	34,260
27540	7-Sep	3	3	0	0	808	5,739	1,289	9,542	460	1,417	332	2,035	2,889	18,733

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Table 5. (page 14 of 14)

Stat Area	Catch Date	Fishing Effort		Chinook		Sockeye		Coho		Pink		Chum		Total	
		Permits	Landings	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
27540	10-Sep			0	0	2,466	17,510	790	5,851	77	268	181	1,109	3,514	24,738
	11-Sep			0	0	576	4,095	459	3,402	16	59	164	1,009	1,215	8,565
	12-Sep	3	3	0	0	625	4,440	5,891	50,988	21	75	132	820	6,669	56,323
27540	13-Sep			0	0	221	1,567	395	3,339	7	25	97	632	720	5,563
	Total	25	229	424	6,375	96,133	636,972	90,706	653,142	678,836	2,403,242	92,884	671,831	958,983	4,371,562
	Avg. Wt.				15.0		6.6		7.2		3.5		7.2		
27550	2-Aug			0	0	53	359	1	7	2,188	7,236	69	521	2,311	8,123
	Total			0	0	53	359	1	7	2,188	7,236	69	521	2,311	8,123
	Avg. Wt.				0.0		6.8		7.0		3.3		7.6		

^aDoes not include salmon that were caught for personal use.

^bFishing effort omitted where there are confidentiality concerns (<3 vessels).

^cTest fishery within Chignik Lagoon.

Table 6. Comparison of average weights of salmon, based on fish ticket weights, caught inside and outside the Chignik Bay District, 1983-95.

Year	Chinook		Average Weight	Sockeye		Average Weight	Coho		Average Weight	Pink		Average Weight	Chum		Average Weight
	Number	Pounds		Number	Pounds		Number	Pounds		Number	Pounds				
Chignik Bay District															
1983	3,560	80,193	22.5	1,597,059	10,536,850	6.6	29,519	250,786	8.5	27,284	97,222	3.6	16,747	130,154	7.8
1984	3,696	93,096	25.2	1,942,822	13,579,107	7.0	72,722	658,240	9.1	165,178	670,923	4.1	8,173	61,159	7.5
1985	1,810	43,396	24.0	812,605	4,820,590	5.9	156,579	1,431,798	9.1	14,429	55,900	3.9	4,906	31,307	6.4
1986	2,592	60,723	23.4	1,389,172	9,488,499	6.8	60,197	481,706	8.0	191,264	767,714	4.0	18,167	134,735	7.4
1987	1,931	42,848	22.2	1,559,757	11,508,187	7.4	77,333	654,640	8.5	13,887	51,855	3.7	5,163	38,429	7.4
1988	4,331	96,241	22.2	529,540	3,873,621	7.3	94,292	819,677	8.7	119,794	460,519	3.8	7,013	55,911	8.0
1989	3,532	76,491	21.7	1,156,782	7,950,548	6.9	68,231	559,127	8.2	27,691	94,218	3.4	1,587	11,546	7.3
1990	3,719	80,915	21.8	1,400,069	9,374,800	6.7	61,260	497,901	8.1	94,528	319,928	3.4	11,460	77,739	6.8
1991	1,996	47,206	23.7	1,487,421	10,196,187	6.9	56,574	481,741	8.5	76,163	231,960	3.0	17,545	115,553	6.6
1992	3,181	67,840	21.3	792,889	5,177,003	6.5	80,946	676,752	8.4	178,105	729,324	4.1	12,711	79,207	6.2
1993	5,240	85,848	16.4	762,730	4,675,799	6.1	48,808	349,816	7.2	55,909	174,334	3.1	8,116	44,235	5.5
1994	1,808	36,773	20.3	908,042	5,696,656	6.3	70,541	669,451	9.5	59,425	261,622	4.4	25,250	174,189	6.9
1995	3,008	76,580	25.5	1,083,707	7,335,791	6.8	54,646	460,937	8.4	106,939	416,118	3.9	14,588	114,029	7.8
10-Year *															
Average Weight			21.8			6.8			8.4			3.7			7.0
All other Districts															
1983	1,928	15,966	8.3	227,116	1,389,979	6.1	32,408	237,417	7.3	293,894	1,103,666	3.8	142,665	1,075,112	7.5
1984	622	6,471	10.4	717,797	4,957,180	6.9	37,406	291,725	7.8	279,626	980,326	3.5	55,130	424,808	7.7
1985	78	1,508	19.3	109,546	629,469	5.7	34,609	278,049	8.0	145,699	587,831	4.0	17,900	113,974	6.4
1986	445	6,049	13.6	256,662	1,766,361	6.9	56,436	385,489	6.8	455,861	1,606,597	3.5	158,473	1,169,683	7.4
1987	720	6,634	9.2	339,081	2,493,527	7.4	73,081	535,163	7.3	232,888	847,705	3.6	122,098	905,512	7.4
1988	2,965	32,639	11.0	266,301	1,840,831	6.9	276,128	2,069,750	7.5	2,877,365	10,262,986	3.6	260,762	2,140,466	8.2
1989	10	207	20.7	2,505	18,732	7.5	2	13	6.5	21	51	2.4	37	342	9.2
1990	6,182	53,350	8.6	693,581	4,434,969	6.4	68,871	435,844	6.3	455,480	1,355,716	3.0	258,544	1,679,280	6.5
1991	1,161	19,497	16.8	408,244	2,748,265	6.7	109,051	701,216	6.4	1,093,085	3,125,671	2.9	243,551	1,560,646	6.4
1992	7,651	70,250	9.2	484,560	3,195,899	6.6	229,997	1,685,939	7.3	1,375,968	5,069,835	3.7	209,423	1,513,119	7.2
1993	14,275	148,405	10.4	934,621	5,586,833	6.0	180,651	1,111,428	6.2	1,592,468	5,139,463	3.2	114,244	691,812	6.1
1994	2,111	35,092	16.6	710,931	4,449,179	6.3	166,663	1,327,375	8.0	371,638	1,233,037	3.3	202,026	1,456,822	7.2
1995	2,253	34,607	15.4	640,338	4,186,530	6.5	225,959	1,601,149	7.1	1,951,059	6,934,270	3.6	366,361	2,700,958	7.4
10-Year *															
Average Weight			13.1			6.7			6.9			3.3			7.3

^a Ten-Year average weight was calculated using 1986-1995 data, including 1989 (oil spill year) where openings and closures were restricted.

Table 7. Processors in the Chignik Management Area, 1995.

PROCESSOR CODE	NAME	TYPE	ADDRESS
F0142	Peter Pan Seafood	King Cove - Shoreside	2200 Sixth Ave. Suite 100, Seattle, Wa. 98121
F0365	Chignik Pride Fisheries	Chignik - Shoreside	4241 21st Ave. W. Suite 300, Seattle, Wa. 98199
F0602	New West Fisheries	Floater Processor	601 West Chestnut St. Bellingham, Wa. 98225
F0832	Kodiak Salmon Packers	Kodiak - Shoreside	20520 Brown Road, Monroe, Wa. 98272
F0940	Trident Seafood Corp.	Sand Point - Shoreside	5303 Shilshole Ave. N.W. Seattle, Wa. 98107
F1084	Crusader Seafood, Inc.	Floater Processor	4225 23rd Ave. West Seattle, Wa. 98199
F1256	Western Seafood, Inc.	Floater Processor	4215 21st Ave. West. Suite 232 Seattle, Wa. 98199
F1342	J & R Fisheries	Floater Processor	P. O. Box 3302 Seward, Ak. 99664
F1662	ADF	Chignik - Shoreside	P.O. Box 70668 Seattle, Wa. 98107
F1838	Harvester Fisheries, Inc.	Floater Processor	P. O. Box 595 Kenai, Ak. 99611

Table 8. Commercial salmon catches in the Chignik Management Area by year, 1960-1995.

Year	Number of Fish ^{a,b,c}					Total
	Chinook	Sockeye	Coho	Pink	Chum	
1960	643	715,969	8,933	557,327	486,699	1,769,571
1961	409	322,890	3,088	443,510	178,760	948,657
1962	435	364,753	1,292	1,519,305	364,335	2,250,120
1963	1,744	408,606	9,933	1,662,363	112,697	2,195,343
1964	1,099	556,890	2,735	1,682,365	333,336	2,576,425
1965	1,592	599,553	9,602	1,118,158	120,589	1,849,494
1966	636	219,794	16,050	683,215	238,883	1,158,578
1967	882	462,000	13,150	108,981	75,543	660,556
1968	674	977,382	2,200	1,290,660	223,861	2,494,777
1969	3,448	394,135	18,103	1,779,736	67,721	2,263,143
1970	1,226	1,325,734	15,348	1,157,172	437,252	2,936,732
1971	2,010	1,016,136	14,557	612,290	353,952	1,998,945
1972	464	378,218	19,615	72,161	78,298	548,756
1973	525	870,354	22,322	25,472	8,717	927,390
1974	255	662,905	12,245	69,515	34,312	779,232
1975	549	399,593	53,283	66,165	25,161	544,751
1976	2,290	1,163,728	35,167	395,287	81,403	1,677,875
1977	710	1,972,207	17,430	604,806	110,452	2,705,605
1978	1,603	1,576,283	20,212	985,114	120,889	2,704,101
1979	1,253	1,049,497	99,129	1,905,198	188,907	3,243,984
1980	2,344	859,966	119,573	1,093,184	252,521	2,327,588
1981	2,694	1,839,469	78,805	1,162,613	580,332	3,663,913
1982	5,236	1,521,686	300,273	873,384	390,096	3,090,675
1983	5,488	1,824,175	61,927	321,178	159,412	2,372,180
1984	4,318	2,660,619	110,128	444,804	63,303	3,283,172
1985	1,888	922,151	191,188	160,128	22,806	1,298,161
1986	3,037	1,645,834	116,633	647,125	176,640	2,589,269
1987	2,651	1,898,838	150,414	246,775	127,261	2,425,939
1988	7,296	795,841	370,420	2,997,159	267,775	4,438,491
1989	3,542	1,159,287	68,233	27,712	1,624	1,260,398
1990	9,901	2,093,650	130,131	550,008	270,004	3,053,694
1991	3,157	1,895,665	165,625	1,169,248	261,096	3,494,791
1992	10,832	1,277,449	310,943	1,554,073	222,134	3,375,431
1993	19,515	1,697,351	229,459	1,648,397	122,360	3,717,082
1994	3,919	1,618,973	237,204	431,063	227,276	2,518,435
1995	5,261	1,724,045	280,605	2,057,998	380,949	4,448,858
Avg (1966-75)	1,067	670,625	18,687	586,537	154,370	1,431,286
Avg (1976-85)	2,782	1,538,978	103,383	794,570	197,012	2,636,725
Avg (1986-95)	6,911	1,580,693	205,967	1,132,956	205,712	3,132,239

^aCatch does not include Cape Igvak or Southeastern District Mainland Area.

^bCatches (1970-1995) were updated using historical electronic fish ticket databases.

^cDoes not include fish designated as personal use.

Table 9. Estimated salmon escapement by district and statistical area in the Chignik Management Area, 1995.

District	Stat Area	Chinook	Sockeye	Coho ^a	Pink ^b	Chum	Total
Chignik Bay ^c	271-10	4,288	739,920	19,078	180,521	10,325	954,132
	Total	4,288	739,920	19,078	180,521	10,325	954,132
Central	272-20	0	0		112,298	500	112,798
	272-30	0	0		61,400	570	61,970
	272-50	0	0		541,777	42,913	584,690
	Total	0	0		715,475	44,483	759,958
Eastern	272-60	0	6,000		173,467	61,500	240,967
	272-70	0	0		251,050	16,433	267,483
	272-72	0	0		58,000	10,000	68,000
	272-80	0	100		234,790	8,367	243,257
	272-90	0	0		445,314	7,300	452,614
	272-92	0	0		41,000	4,300	45,300
	272-96	0	100		195,667	4,850	200,617
	Total	0	6,200		1,399,288	112,750	1,518,238
Western	273-70	0	0		174,133	100	174,233
	273-72	0	0		186,167	1,200	187,367
	273-80	0	0		19,000	0	19,000
	273-82	0	0		16,491	0	16,491
	273-84	0	0		118,883	34,353	153,236
	273-94	0	0		40,000	10,000	50,000
	Total	0	0		554,674	45,653	600,327
Perryville	275-40	0	0		313,400	133,827	447,227
	275-50	0	0		247,650	700	248,350
	275-60	0	0		21,000	100	21,100
	Total	0	0		582,050	134,627	716,677
All District Total		4,288	746,120	19,078	3,432,008	347,838	4,549,332

^aCoho salmon estimates for the Chignik River were after methods from Ruggerone (1989). Coho salmon aerial surveys were incomplete because of budget constraints.

^bEscapement estimates for pink and chum salmon were based on aerial surveys and expansion methods of Johnson and Barrett (1988).

^cEscapement was estimated by weir counts on the Chignik River. All other escapement to all districts was estimated by aerial survey observations.

Table 10. Chinook salmon daily and cumulative escapement estimates through the Chignik weir by day, 1995.

Date	Escapement ^{a,b}		Date	Escapement ^{a,b}	
	Daily	Cumulative		Daily	Cumulative
1-Jun	0	0	14-Jul	405	2,030
2-Jun	0	0	15-Jul	328	2,358
3-Jun	0	0	16-Jul	55	2,413
4-Jun	0	0	17-Jul	30	2,443
5-Jun	0	0	18-Jul	144	2,587
6-Jun	0	0	19-Jul	274	2,861
7-Jun	0	0	20-Jul	87	2,948
8-Jun	0	0	21-Jul	156	3,104
9-Jun	0	0	22-Jul	177	3,281
10-Jun	0	0	23-Jul	36	3,317
11-Jun	0	0	24-Jul	43	3,360
12-Jun	0	0	25-Jul	185	3,545
13-Jun	0	0	26-Jul	146	3,691
14-Jun	0	0	27-Jul	84	3,775
15-Jun	0	0	28-Jul	63	3,838
16-Jun	0	0	29-Jul	21	3,859
17-Jun	7	7	30-Jul	36	3,895
18-Jun	8	15	31-Jul	19	3,914
19-Jun	21	36	1-Aug	60	3,974
20-Jun	0	36	2-Aug	34	4,008
21-Jun	0	36	3-Aug	13	4,021
22-Jun	0	36	4-Aug	22	4,043
23-Jun	2	38	5-Aug	7	4,050
24-Jun	7	45	6-Aug	12	4,062
25-Jun	4	49	7-Aug	32	4,094
26-Jun	4	53	8-Aug	16	4,110
27-Jun	0	53	9-Aug	73	4,183
28-Jun	21	74	10-Aug	9	4,192
29-Jun	3	77	11-Aug	37	4,229
30-Jun	0	77	12-Aug	6	4,235
1-Jul	0	77	13-Aug	12	4,247
2-Jul	8	85	14-Aug	6	4,253
3-Jul	19	104	15-Aug	0	4,253
4-Jul	36	140	16-Aug	20	4,273
5-Jul	72	212	17-Aug	1	4,274
6-Jul	54	266	18-Aug	2	4,276
7-Jul	18	284	19-Aug	6	4,282
8-Jul	99	383	20-Aug	0	4,282
9-Jul	120	503	21-Aug	6	4,288
10-Jul	100	603	22-Aug	0	4,288
11-Jul	30	633	23-Aug	0	4,288
12-Jul	349	982	24-Aug	0	4,288
13-Jul	643	1,625	25-Aug	Weir Out	

^a No escapement adjustments are made for chinook salmon that escape after the weir is removed, or those that spawn below the weir, or those removed by the sport fishery.

^b The chinook salmon biological escapement goal is 1,450 fish.

Table 11. Sockeye salmon daily and cumulative escapement estimates through the weir by day, 1995.

Date	Escapement		Date	Escapement	
	Daily	Cumulative		Daily	Cumulative
1-Jun	127	127	15-Jul	18,007	536,552
2-Jun	335	462	16-Jul	4,061	540,613
3-Jun	1,489	1,951	17-Jul	1,541	542,154
4-Jun	1,106	3,057	18-Jul	3,379	545,533
5-Jun	1,308	4,365	19-Jul	11,076	556,609
6-Jun	3,681	8,046	20-Jul	20,831	577,440
7-Jun	12,912	20,958	21-Jul	7,331	584,771
8-Jun	8,914	29,872	22-Jul	987	585,758
9-Jun	14,873	44,745	23-Jul	1,513	587,271
10-Jun	22,204	66,949	24-Jul	1,226	588,497
11-Jun	22,847	89,796	25-Jul	2,441	590,938
12-Jun	6,238	96,034	26-Jul	4,154	595,092
13-Jun	3,158	99,192	27-Jul	15,284	610,376
14-Jun	3,674	102,866	28-Jul	13,799	624,175
15-Jun	5,389	108,255	29-Jul	1,949	626,124
16-Jun	6,156	114,411	30-Jul	1,023	627,147
17-Jun	6,213	120,624	31-Jul	438	627,585
18-Jun	13,439	134,063	1-Aug	2,108	629,693
19-Jun	24,033	158,096	2-Aug	677	630,370
20-Jun	36,537	194,633	3-Aug	1,009	631,379
21-Jun	31,284	225,917	4-Aug	4,456	635,835
22-Jun	2,646	228,563	5-Aug	3,280	639,115
23-Jun	16,111	244,674	6-Aug	1,539	640,654
24-Jun	39,313	283,987	7-Aug	1,374	642,028
25-Jun	7,683	291,670	8-Aug	1,115	643,143
26-Jun	4,542	296,212	9-Aug	1,488	644,631
27-Jun	20,509	316,721	10-Aug	1,910	646,541
28-Jun	26,738	343,459	11-Aug	1,393	647,934
29-Jun	17,924	361,383	12-Aug	1,308	649,242
30-Jun	17,570	378,953	13-Aug	4,551	653,793
1-Jul	23,025	401,978	14-Aug	7,564	661,357
2-Jul	24,478	426,456	15-Aug	7,825	669,182
3-Jul	19,476	445,932	16-Aug	3,071	672,253
4-Jul	3,963	449,895	17-Aug	1,918	674,171
5-Jul	2,980	452,875	18-Aug	2,465	676,636
6-Jul	1,295	454,170	19-Aug	626	677,262
7-Jul	1,322	455,492	20-Aug	1,317	678,579
8-Jul	805	456,297	21-Aug	3,075	681,654
9-Jul	1,075	457,372	22-Aug	1,913	683,567
10-Jul	1,978	459,350	23-Aug	1,139	684,706
11-Jul	2,080	461,430	24-Aug	1,314	686,020
12-Jul	7,056	468,486	25-Aug	Weir Out	
13-Jul	25,901	494,387	Post Weir ^a	53,900	739,920
14-Jul	24,158	518,545			

^aThe relationship of catch and escapement prior to August 25 was used to estimate sockeye escapement after the weir was removed on August 25 until the fishery closed on September 16.

Table 12. Pink and coho salmon daily and cumulative escapement estimates through the Chignik weir by day, 1995.

Date	Pink Escapement		Coho Escapement	
	Daily	Cumulative	Daily	Cumulative
4-Aug	6	6	0	0
5-Aug	96	102	0	0
6-Aug	132	234	0	0
7-Aug	20	254	0	0
8-Aug	18	272	0	0
9-Aug	8	280	0	0
10-Aug	36	316	0	0
11-Aug	36	352	0	0
12-Aug	18	370	0	0
13-Aug	38	408	0	0
14-Aug	19	427	2	2
15-Aug	31	458	6	8
16-Aug	39	497	12	20
17-Aug	65	562	54	74
18-Aug	42	604	60	134
19-Aug	120	724	78	212
20-Aug	82	806	144	356
21-Aug	60	866	106	462
22-Aug	134	1,000	168	630
23-Aug	121	1,121	145	775
24-Aug	6	1,127	99	874
25-Aug Weir Out				
^a Post Weir				18,204

^aThe relationship of catch and escapement of sockeye was compared to the coho catch to estimate coho escapement August 25-September 16.

Table 13. Economic value of salmon and average income per commercial salmon permit holder, in dollars, in the Chignik Management Area, 1970-1995.

Date	Chinook		Sockeye		Coho		Pink		Chum		Total value	Number Of Permits Fished	Total Value Per Permit
	Total	Average	Total	Average	Total	Average	Total	Average	Total	Average			
1970	6,129	89	2,190,272	31,743	18,397	267	635,673	9,213	376,025	5,450	3,226,496	69	46,761
1971	6,472	84	2,034,279	26,419	23,240	302	366,693	4,762	326,760	4,244	2,757,444	77	35,811
1972	2,028	28	825,498	11,308	35,699	489	48,401	663	87,759	1,202	999,385	79	12,650
1973	5,255	72	3,030,057	41,508	73,663	1,009	20,610	282	10,180	139	3,139,765	77	40,776
1974	2,941	32	3,618,781	39,767	31,933	351	64,069	704	51,125	562	3,768,849	94	40,094
1975	6,561	76	1,384,271	16,240	213,539	2,581	104,115	12,211	61,704	717	1,770,190	86	20,584
1976	13,800	179	4,751,000	61,701	138,000	1,792	568,300	7,381	183,600	2,384	5,654,700	77	73,438
1977	18,828	212	14,553,720	163,525	104,819	1,178	920,881	10,347	368,066	4,136	15,966,314	88	181,435
1978	56,700	597	15,653,500	164,774	116,400	1,225	1,131,500	11,911	404,500	4,258	17,362,600	95	182,764
1979	32,050	317	11,345,503	112,332	710,192	7,031	2,622,269	25,963	126,866	1,256	14,836,880	101	146,900
1980	67,657	670	5,532,290	54,775	520,655	5,155	1,477,060	14,624	1,061,963	10,514	8,659,625	101	85,739
1981	75,231	730	17,262,119	167,593	439,900	4,271	1,881,334	18,265	2,431,421	23,606	22,090,005	103	214,466
1982	75,276	717	13,038,510	124,176	1,782,027	16,972	578,184	5,506	1,356,597	12,920	16,830,594	105	160,291
1983	96,159	962	10,728,088	107,281	219,650	2,197	240,171	2,402	421,713	4,217	11,705,781	100	117,058
1984	114,502	1,134	20,402,076	202,000	759,972	7,525	330,916	3,276	146,024	1,446	21,753,490	101	215,381
1985	67,088	664	7,997,834	79,186	1,471,418	14,568	140,076	1,387	59,475	589	8,735,891	101	86,494
1986	84,800	848	16,882,290	168,823	667,740	6,677	356,147	3,562	456,546	4,565	18,447,523	100	184,475
1987	72,739	706	24,783,033	240,612	1,035,129	10,050	269,868	2,620	339,819	3,299	26,500,588	102	259,810
1988	286,740	2,811	14,350,354	140,690	4,153,424	40,720	6,771,266	66,385	2,189,293	21,464	27,751,077	102	272,069
1989 ^a	78,999	790	13,047,378	130,474	436,892	4,369	32,994	3,299	4,745	47	13,601,008	100	136,010
1990	185,256	1,834	22,509,923	222,871	700,309	6,934	502,693	4,977	878,510	8,698	24,776,691	101	245,314
1991	50,027	486	11,002,784	106,823	650,626	6,317	402,916	3,912	502,860	4,882	12,609,213	101	124,844
1992	193,326	1,858	12,552,025	120,693	1,323,107	12,722	811,882	7,807	414,005	3,981	15,294,345	101	151,429
1993	175,690	1,722	8,210,106	80,491	730,622	7,163	637,666	6,252	184,012	1,804	9,938,096	102	97,432
1994	38,096	385	10,046,245	101,477	1,094,415	11,055	226,504	2,208	430,888	4,352	11,836,148	99	119,557
1995	60,174	602	11,969,210	119,692	834,337	8,343	977,811	9,778	634,780	6,348	14,476,312	100	144,763
10-yr average 1986-1995													
	122,585	1,204	14,535,335	143,265	1,162,660	11,435	1,098,975	11,080	603,546	5,944	17,523,100	101	173,570

^aExxon Valdez Oil Spill

Table 14. Chignik River chinook salmon escapement, Chignik Management Area catch, and total run, 1960-1995.

Year	Escapement ^a	Catch ^b	Total Run
1960	-	643	643
1961	-	409	409
1962	-	435	435
1963	564	1,744	2,308
1964	914	1,099	2,013
1965	942	1,592	2,534
1966	822	636	1,458
1967	1,500	882	2,382
1968	1,000	674	1,674
1969	600	3,448	4,048
1970	2,500	1,226	3,726
1971	2,000	2,010	4,010
1972	1,500	464	1,964
1973	822	525	1,347
1974	672	255	927
1975	877	549	1,426
1976	700	2,290	2,990
1977	798	710	1,508
1978	1,197	1,603	2,800
1979	1,050	1,253	2,303
1980	876	2,344	3,220
1981	1,603	2,694	4,297
1982	2,412	5,236	7,648
1983	1,943	5,488	7,431
1984	5,806	4,318	10,124
1985	3,144	1,888	5,032
1986	3,612	3,037	6,649
1987	2,624	2,651	5,275
1988	4,868	7,296	12,164
1989	3,316	3,542	6,858
1990	4,364	9,901	14,265
1991	4,545	3,157	7,702
1992	3,806	10,832	14,638
1993	1,946	19,515	21,461
1994	3,016	3,919	6,935
1995	4,288	5,261	9,549
<hr/>			
Avg (1966-75)	1,229	1,067	2,296
Avg (1976-85)	1,953	4,847	7,642
Avg (1986-95)	3,639	6,911	10,550

^a No escapement adjustments are made for chinook salmon that escape after the weir is removed, those that spawn below the weir, or those removed by the sport fishery.

^b Does not include chinook salmon utilized for personal use or listed on a subsistence permit.

Table 15. Sockeye salmon age composition for Black Lake from scale samples collected at the Black Lake outlet, 1995.

Date	Sample Size	Age Class (Percent)										
		0.2	0.3	1.2	1.3	1.4	2.1	2.2	2.3	2.4	3.2	3.3
21-Jun	399	0.0	0.3	18.8	48.4	2.3	0.0	18.8	11.3	0.0	0.3	0.0
22-Jun	217	0.5	0.0	18.0	49.3	1.4	0.0	15.2	15.2	0.5	0.0	0.0
23-Jun	179	0.6	0.0	19.0	50.3	1.1	0.0	18.4	10.6	0.0	0.0	0.0
24-Jun	660	0.2	0.3	14.1	48.6	0.8	0.0	21.2	14.2	0.3	0.2	0.2
25-Jun	354	0.6	0.3	22.3	45.2	0.3	0.3	20.1	11.0	0.0	0.0	0.0
Total	1,809	0.3	0.2	17.7	48.1	1.1	0.1	19.5	12.7	0.2	0.1	0.1

Table 16. Sockeye and chinook salmon age composition as determined from Chignik Lagoon commercial fishery scale samples, 1995.

Date	Sample Size	Sockeye Salmon Age Composition (Percent)												
		0.2	0.3	1.1	1.2	1.3	1.4	2.1	2.2	2.3	2.4	3.2	3.3	Other
8-Jun	542	0.6	0.0	0.0	10.9	49.8	0.4	0.0	18.3	20.1	0.0	0.0	0.0	0.0
13-Jun	519	0.2	0.2	0.0	11.9	52.6	0.8	0.0	16.0	18.1	0.0	0.2	0.0	0.0
20-Jun	514	0.4	0.2	0.0	11.7	58.0	0.8	0.0	15.2	13.6	0.0	0.0	0.0	0.2
25-Jun	502	0.0	0.4	0.2	10.8	49.2	0.0	0.0	22.1	17.3	0.0	0.0	0.0	0.0
30-Jun	511	0.0	0.4	0.0	14.3	39.3	0.0	0.4	28.2	17.4	0.0	0.0	0.0	0.0
3-Jul	512	0.0	0.2	0.2	9.2	33.8	0.2	0.0	24.2	31.8	0.0	0.4	0.0	0.0
6-Jul	509	0.0	0.0	0.0	7.1	26.5	0.0	0.0	22.8	41.7	0.6	1.0	0.4	0.0
8-Jul	518	0.0	0.0	0.0	9.5	28.0	0.4	0.0	15.3	45.9	0.6	0.2	0.0	0.2
14-Jul	510	0.0	0.0	0.0	7.1	19.8	0.2	0.0	7.6	64.7	0.4	0.0	0.2	0.0
20-Jul	488	0.0	0.0	0.0	5.3	23.8	0.0	0.0	7.2	63.5	0.0	0.0	0.2	0.0
27-Jul	489	0.0	0.0	0.2	5.7	19.6	0.2	0.0	9.0	64.2	0.2	0.6	0.2	0.0
4-Aug	491	0.0	0.0	0.2	4.9	4.7	0.2	0.8	9.8	76.2	0.6	1.6	1.0	0.0
10-Aug	455	0.0	0.0	0.0	0.2	1.3	0.2	0.2	4.6	88.6	1.8	2.0	1.1	0.0
15-Aug	474	0.0	0.0	0.0	1.5	3.8	0.0	0.0	7.0	86.1	0.6	0.6	0.4	0.0
18-Aug	463	0.0	0.2	0.2	2.8	5.4	0.0	0.2	5.4	84.7	0.9	0.2	0.0	0.0
22-Aug	473	0.0	0.0	0.0	2.7	7.8	0.2	0.0	5.7	81.6	1.1	0.0	0.8	0.0
Total	7,970	0.1	0.1	0.1	7.4	27.2	0.2	0.1	13.9	49.9	0.4	0.4	0.3	0.0

Date	Sample Size	Chinook Salmon Age Composition (Percent)							
		1.1	1.2	1.3	1.4	1.5	2.2	2.3	2.4
All Season	332	2.4	12.0	14.2	63.0	6.3	0.3	0.3	1.5

Table 17. Sockeye salmon escapement through the Chignik River weir for Chignik Lake and Black Lake using daily percentages derived from the inseason scale pattern analysis time of entry curve, 1995.

Date	Daily	Total Cumulative	Chignik Lake			Black Lake Cumulative
			Percent	Daily	Cumulative	
1-Jun	127	127	1.90	2	2	125
2-Jun	335	462	1.90	6	8	454
3-Jun	1,489	1,951	1.90	28	36	1,915
4-Jun	1,106	3,057	2.00	22	58	2,999
5-Jun	1,308	4,365	2.00	27	85	4,280
6-Jun	3,681	8,046	2.10	76	161	7,885
7-Jun	12,912	20,958	2.10	271	432	20,526
8-Jun	8,914	29,872	2.10	189	621	29,251
9-Jun	14,873	44,745	2.20	321	942	43,803
10-Jun	22,204	66,949	2.20	485	1,427	65,522
11-Jun	22,847	89,796	2.20	506	1,933	87,863
12-Jun	6,238	96,034	2.20	140	2,073	93,961
13-Jun	3,158	99,192	2.30	72	2,145	97,047
14-Jun	3,674	102,866	2.30	85	2,230	100,636
15-Jun	5,389	108,255	2.30	126	2,356	105,899
16-Jun	6,156	114,411	2.40	146	2,502	111,909
17-Jun	6,213	120,624	2.40	149	2,651	117,973
18-Jun	13,439	134,063	2.40	326	2,977	131,086
19-Jun	24,033	158,096	2.50	590	3,567	154,529
20-Jun	36,537	194,633	3.80	1,372	4,939	189,694
21-Jun	31,284	225,917	5.10	1,581	6,520	219,397
22-Jun	2,646	228,563	6.90	181	6,701	221,862
23-Jun	16,111	244,674	8.70	1,394	8,095	236,579
24-Jun	39,313	283,987	10.50	4,110	12,205	271,782
25-Jun	7,683	291,670	12.30	942	13,147	278,523
26-Jun	4,542	296,212	13.90	633	13,780	282,432
27-Jun	20,509	316,721	17.50	3,598	17,378	299,343
28-Jun	26,738	343,459	21.10	5,654	23,032	320,427
29-Jun	17,924	361,383	24.70	4,435	27,467	333,916
30-Jun	17,570	378,953	28.30	4,980	32,447	346,506
1-Jul	23,025	401,978	31.70	7,310	39,757	362,221
2-Jul	24,478	426,456	37.10	9,093	48,850	377,606
3-Jul	19,476	445,932	42.50	8,286	57,136	388,796
4-Jul	3,963	449,895	48.00	1,902	59,038	390,857
5-Jul	2,980	452,875	53.10	1,582	60,620	392,255
6-Jul	1,295	454,170	58.20	754	61,374	392,796
7-Jul	1,322	455,492	63.30	837	62,211	393,281
8-Jul	805	456,297	68.40	551	62,762	393,535
9-Jul	1,075	457,372	73.50	790	63,552	393,820
10-Jul	1,978	459,350	78.60	1,555	65,107	394,243
11-Jul	2,080	461,430	80.40	1,672	66,779	394,651
12-Jul	7,056	468,486	84.10	5,934	72,713	395,773

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Table 17. (page 2 of 2)

Date	Daily	Total Cumulative	Chignik Lake			Black Lake Cumulative
			Percent	Daily	Cumulative	
13-Jul	25,901	494,387	87.80	22,741	95,454	398,933
14-Jul	24,158	518,545	88.90	21,476	116,930	401,615
15-Jul	18,007	536,552	90.00	16,206	133,136	403,416
16-Jul	4,061	540,613	91.10	3,700	136,836	403,777
17-Jul	1,541	542,154	92.20	1,421	138,257	403,897
18-Jul	3,379	545,533	93.30	3,153	141,410	404,123
19-Jul	11,076	556,609	94.40	10,456	151,866	404,743
20-Jul	20,831	577,440	96.50	20,102	171,968	405,472
21-Jul	7,331	584,771	97.60	7,155	179,123	405,648
22-Jul	987	585,758	98.70	974	180,097	405,661
23-Jul	1,513	587,271	99.80	1,510	181,607	405,664
24-Jul	1,226	588,497	100.00	1,226	182,833	405,664
25-Jul	2,441	590,938	100.00	2,441	185,274	405,664
26-Jul	4,154	595,092	100.00	4,154	189,428	405,664
27-Jul	15,284	610,376	100.00	15,284	204,712	405,664
28-Jul	13,799	624,175	100.00	13,799	218,511	405,664
29-Jul	1,949	626,124	100.00	1,949	220,460	405,664
30-Jul	1,023	627,147	100.00	1,023	221,483	405,664
31-Jul	438	627,585	100.00	438	221,921	405,664
1-Aug	2,108	629,693	100.00	2,108	224,029	405,664
2-Aug	677	630,370	100.00	677	224,706	405,664
3-Aug	1,009	631,379	100.00	1,009	225,715	405,664
4-Aug	4,456	635,835	100.00	4,456	230,171	405,664
5-Aug	3,280	639,115	100.00	3,280	233,451	405,664
6-Aug	1,539	640,654	100.00	1,539	234,990	405,664
7-Aug	1,374	642,028	100.00	1,374	236,364	405,664
8-Aug	1,115	643,143	100.00	1,115	237,479	405,664
9-Aug	1,488	644,631	100.00	1,488	238,967	405,664
10-Aug	1,910	646,541	100.00	1,910	240,877	405,664
11-Aug	1,393	647,934	100.00	1,393	242,270	405,664
12-Aug	1,308	649,242	100.00	1,308	243,578	405,664
13-Aug	4,551	653,793	100.00	4,551	248,129	405,664
14-Aug	7,564	661,357	100.00	7,564	255,693	405,664
15-Aug	7,825	669,182	100.00	7,825	263,518	405,664
16-Aug	3,071	672,253	100.00	3,072	266,589	405,664
17-Aug	1,918	674,171	100.00	1,918	268,507	405,664
18-Aug	2,465	676,636	100.00	2,465	270,972	405,664
19-Aug	626	677,262	100.00	626	271,598	405,664
20-Aug	1,317	678,579	100.00	1,317	272,915	405,664
21-Aug	3,075	681,654	100.00	3,075	275,990	405,664
22-Aug	1,913	683,567	100.00	1,913	277,903	405,664
23-Aug	1,139	684,706	100.00	1,139	279,042	405,664
24-Aug	1,314	686,020	100.00	1,314	280,356	405,664
25-Aug Weir Removed						

Table 18. Harvest of Chignik bound sockeye salmon in the Chignik, Cape Igvak, and Southeast District Mainland Areas^a from 1964-1995.

Year	Chignik Area		Cape Igvak		Mainland Area		Total All Areas
	Catch	Percent	Catch	Percent	Catch	Percent	
1964 ^b	556,890	90.57	14,980	2.44	43,021	7.00	614,891
1965	599,553	89.94	11,021	1.65	56,020	8.40	666,594
1966	219,794	87.99	18,003	7.21	12,011	4.81	249,808
1967	462,000	91.48	23,014	4.56	20,021	3.96	505,035
1968	977,382	82.53	135,951	11.48	70,959	5.99	1,184,292
1969	394,135	78.96	97,982	19.63	7,013	1.41	499,130
1970 ^c	1,325,734	72.51	434,394	23.76	68,181	3.73	1,828,309
1971	1,016,136	80.33	197,614	15.62	51,272	4.05	1,265,022
1972	378,218	87.99	33,865	7.88	17,752	4.13	429,815

1964-72 catch and percentage figures are total for the entire season. Catch figures and percentages after 1972 are only through July 25.

1973 ^a	769,258	88.97	57,348	6.63	37,983	4.39	864,589
1974	530,278	73.61	122,071	16.95	68,029	9.44	720,378
1975	115,984	81.78	23,635	16.67	2,205	1.55	141,824
1976	792,024	82.96	117,926	12.35	44,730	4.69	954,680
1977	1,547,285	90.40	128,852	7.53	35,502	2.07	1,711,639
1978 ^{a,t}	1,454,389	85.38	227,014	13.33	22,064	1.30	1,703,467
1979 ^s	794,504	91.81	13,950	1.61	56,878	6.57	865,332
1980	670,001	91.31	32	0.00	63,724	8.68	733,757
1981	1,606,300	79.85	282,727	14.06	122,533	6.09	2,011,560
1982	1,250,768	84.46	167,401	11.30	62,767	4.24	1,480,936
1983	1,450,832	72.68	318,048	15.93	227,392	11.39	1,996,272
1984	2,474,405	73.93	449,372	13.43	423,068	12.64	3,346,845
1985 ^h	696,169	79.91	123,627	14.19	51,421	5.60	871,217
1986	1,456,729	82.64	188,017	10.67	118,006	6.69	1,762,752
1987	1,659,615	77.99	321,506	15.11	146,886	6.90	2,128,007
1988	675,487	95.67	11,218	1.59	19,320	2.74	706,025
1989	496,044	99.10	0	0.00	4,485	0.90	500,529
1990	1,205,575	83.61	107,706	7.47	128,599	8.92	1,441,880
1991 ⁱ	1,958,954	80.42	324,329	13.31	152,714	6.27	2,435,997
1992 ^j	1,054,309	81.07	152,358	11.72	93,845	7.22	1,300,512
1993	1,495,098	77.72	300,055	15.60	128,536	6.68	1,923,689
1994 ^k	1,632,435	80.61	250,230	12.36	142,350	7.03	2,025,015
1995	1,024,785	79.90	169,530	13.22	88,301	6.88	1,282,616

^a The Cape Igvak and Southeast District Mainland figures represent 80% of the total sockeye catches for those areas as it is estimated that roughly 80% of the sockeye caught in the Cape Igvak section and Southeast District Mainland Area (excluding sockeye caught in Northwest Stepovak Section from 1964-1991 and in Orzinski bay in 1992) are destined for Chignik.

^b The data from 1964-1972 are based on total yearly catches. Prior to 1973, Cape Igvak and Southeast District Mainland fisheries were set by regulation to weekly fishing periods, usually 5 days per week. Time modifications were implemented when poor escapements occurred at Chignik.

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- ^c Catches (1970-1992) were updated using historical electronic fish ticket databases.
 - ^d During 1973 through 1977 all three fisheries were managed on a day by day basis.
 - ^e From 1978-1991, the Cape Igvak Fishery Management Plan allocated 15 percent of the total sockeye catch destined for Chignik.
 - ^f During 1978, seining prior to July 11 was disallowed in the Southeast District Mainland. The set gillnet fishery was allowed to fish 3 days per week through July 10 after which the fishery was managed on the basis of local stocks.
 - ^g During 1979-1984 and prior to July 11, fishing was allowed 5 days per week in the Southeast District Mainland Area with a ceiling of an estimated 60,000 sockeye destined for Chignik. If the Chignik Area sockeye catch was 1,000,000 or more before July 11, the 60,000 ceiling was to be dropped.
 - ^h Beginning in 1985, Southeast District Mainland Area (excluding the Northwest Stepovak Section from 1964-1991 and Orzinski Bay statistical area) was placed on an allocation of 6.2 percent of the total estimated Chignik sockeye catch through July 25. After July 25, the Southeast District Mainland is managed on a local stock basis. The allocation changed to 6.0 percent beginning in 1988. Seining is still not allowed prior to July 11.
 - ⁱ Includes overescapement of 278,305 sockeye counted past the weir during the Chignik Area seiners' boycott (Jun 23-Jul 4).
 - ^j Review of Orzinski Lake historical and current escapement records led the Alaska Board of Fisheries to redefine the Southeast District Mainland Management Plan. Beginning in 1992, the Southeast District Mainland fishery (excluding Orzinski Bay) was placed on an allocation of 7.0 percent of the total estimated Chignik sockeye catch through July 25.
 - ^k Includes overescapement of 208,921 sockeye counted past the weir during the Chignik Area seiners' strike (Jun 22-Jun 25).
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Table 19. Total Chignik Management Area and 80 percent of the sockeye harvest in the Cape Igvak and Southeast District Mainland Areas through July 25, 1964-1995.

Year	Harvest to July 25 Only ^a				Harvest for Entire Season ^a			
	Chignik	Igvak	Mainland	Total	Chignik	Igvak	Mainland	Total
1964	-	-	-	-	556,890	14,980	43,021	614,891
1965	-	-	-	-	599,553	11,021	56,020	666,594
1966	-	-	-	-	219,794	18,003	12,011	249,808
1967	-	-	-	-	462,000	23,014	20,021	505,035
1968	-	-	-	-	977,382	135,951	70,959	1,184,292
1969	-	-	-	-	394,135	97,982	7,013	499,130
1970	-	-	-	-	1,325,734	434,394	68,181	1,828,309
1971	-	-	-	-	1,016,136	197,614	51,272	1,265,022
1972	-	-	-	-	378,218	33,865	17,752	429,835
1973	769,258	57,348	37,983	864,589	870,354	57,348	38,266	965,968
1974	530,278	122,071	68,029	720,378	662,905	122,071	65,514	850,490
1975	115,984	23,635	2,205	141,824	399,593	23,635	2,205	425,433
1976	792,024	117,926	44,730	954,680	1,163,728	117,978	44,781	1,326,487
1977	1,547,285	128,852	35,502	1,711,639	1,972,207	128,852	35,401	2,136,460
1978	1,454,389	227,014	22,064	1,703,467	1,576,283	227,052	23,990	1,827,325
1979	794,504	13,950	56,878	865,332	1,049,497	20,436	82,153	1,152,086
1980	670,001	32	63,724	733,757	859,966	631	88,046	948,643
1981	1,606,300	282,727	122,533	2,011,560	1,839,469	284,211	166,034	2,289,714
1982	1,250,768	167,401	62,767	1,480,936	1,521,686	168,295	86,849	1,776,830
1983	1,450,832	318,048	227,392	1,996,272	1,824,175	323,004	297,429	2,444,608
1984	2,474,405	449,372	423,068	3,346,845	2,660,619	450,066	487,938	3,598,623
1985	696,169	123,627	51,421	871,217	922,151	125,134	93,206	1,140,491
1986	1,456,729	188,017	118,006	1,762,752	1,645,834	188,129	147,056	1,981,019
1987	1,659,915	321,506	146,886	2,128,307	1,898,538	344,117	188,983	2,431,638
1988	675,487	11,218	19,320	706,025	792,705	28,783	79,101	900,589
1989	496,044	-	4,485	500,529	1,152,854	-	138,594	1,291,448
1990	1,205,575	107,706	128,599	1,441,880	2,088,128	133,821	216,944	2,438,893
1991 ^b	1,958,954	324,329	152,714	2,435,997	2,165,864	341,869	228,934	2,736,667
1992	1,054,309	152,358	93,845	1,300,512	1,265,026	156,318	177,713	1,599,057
1993	1,495,098	300,055	128,536	1,923,689	1,691,907	329,907	222,591	2,244,405
1994 ^c	1,632,435	250,230	142,350	2,025,015	1,818,755	257,827	226,562	2,303,144
1995	1,024,785	169,530	88,301	1,282,616	1,715,022	197,697	269,806	2,182,525

^a Catches (1970-1995) were updated using historical electronic fish ticket databases.
Data does not include test fishery catches.

^b Includes overescapement of 278,305 sockeye counted past the weir during the Chignik Area Seiners' boycott (June 23-July 4).

^c Includes overescapement of 208,921 sockeye counted past the weir during the Chignik Area Seiners' strike (June 22-June 25).

Table 20. Estimated stock composition of age 1.3 Chignik sockeye salmon from commercial catch samples, based on postseason scale pattern analysis, 1995.

Sample ^a Date	Sample Size (n)	Stock	Adjusted Estimate	Estimated Variance	Smoothed Estimate
8-Jun	107	Black Lake	.651	0.015835	0.884
		Chignik Lake	.349	0.015835	0.116
13-Jun	129	Black Lake	1.000	0.014782	0.704
		Chignik Lake	.000	0.014782	0.296
20-Jun	109	Black Lake	.460	0.016452	0.647
		Chignik Lake	.540	0.016452	0.353
25-Jun	113	Black Lake	.481	0.015835	0.495
		Chignik Lake	.519	0.015835	0.505
30-Jun	107	Black Lake	.544	0.016142	0.601
		Chignik Lake	.456	0.016142	0.399
3-Jul	107	Black Lake	.778	0.015379	0.698
		Chignik Lake	.222	0.015379	0.302
6-Jul	101	Black Lake	.773	0.016142	0.815
		Chignik Lake	.227	0.016142	0.185
8-Jul	99	Black Lake	.893	0.016142	0.687
		Chignik Lake	.107	0.016142	0.313
14-Jul	94	Black Lake	.395	0.018875	0.486
		Chignik Lake	.605	0.018875	0.514
20-Jul	103	Black Lake	.171	0.019379	0.298
		Chignik Lake	.829	0.019379	0.702
27-Jul	84	Black Lake	.329	0.020933	0.167
		Chignik Lake	.671	0.020933	0.833

^aSmoothing was done by a running average of 3, assumming an intitial proportion of 0.0 and an ending proportion 1.0.

Table 21. Estimated stock composition of age 2.3 Chignik sockeye salmon from commercial catch samples, based on postseason scale pattern analysis, 1995.

Sample ^a Date	Sample Size (n)	Stock	Adjusted Estimate	Estimated Variance	Smoothed Estimate
8-Jun	101	Black Lake	0.834	0.007452	.900
		Chignik Lake	0.166	0.007452	.100
13-Jun	80	Black Lake	0.866	0.008764	.872
		Chignik Lake	0.134	0.008764	.128
20-Jun	66	Black Lake	0.916	0.009939	.825
		Chignik Lake	0.084	0.009939	.175
25-Jun	112	Black Lake	0.692	0.007140	.728
		Chignik Lake	0.308	0.007140	.272
30-Jun	82	Black Lake	0.575	0.00946	.661
		Chignik Lake	0.425	0.00946	.339
3-Jul	98	Black Lake	0.717	0.007877	.610
		Chignik Lake	0.283	0.007877	.390
6-Jul	105	Black Lake	0.538	0.007557	.548
		Chignik Lake	0.462	0.007557	.452
8-Jul	106	Black Lake	0.389	0.007347	.358
		Chignik Lake	0.611	0.007347	.642
14-Jul	101	Black Lake	0.146	0.006835	.258
		Chignik Lake	0.854	0.006835	.742
20-Jul	99	Black Lake	0.238	0.007347	.146
		Chignik Lake	0.762	0.007347	.854
27-Jul	54	Black Lake	0.055	0.014300	.098
		Chignik Lake	0.945	0.014300	.902

^aSmoothing was done by a running average of 3, assuming an initial proportion of 0.0 and an ending proportion of 1.0.

Table 22. Daily Chignik River sockeye escapement, catch destined to the Chignik Lakes system, and total run, by day and area (adjusted to Chignik Lagoon date), 1995.

Date	Chignik	Catch Areas ^{a,b,c}								Daily Total
	Weir Escapement	Chignik Lagoon	Hook Bay /Kujulik	Aniakchak	Eastern District	Cape Igvak	Western District	Perryville District	Southeast Mainland	
31-May	127	0	0	0	0	0	0	0	0	127
1-Jun	335	0	0	0	0	0	0	0	0	335
2-Jun	1,489	0	0	0	0	0	0	0	0	1,489
3-Jun	1,106	0	0	0	0	0	0	0	0	1,106
4-Jun	1,308	0	0	0	0	0	0	0	0	1,308
5-Jun	3,681	0	0	0	0	0	0	0	0	3,681
6-Jun	12,912	0	0	0	0	0	0	0	0	12,912
7-Jun	8,914	0	0	0	0	0	0	0	0	8,914
8-Jun	14,873	951	0	0	0	0	0	0	0	15,824
9-Jun	22,204	0	0	0	0	0	0	0	0	22,204
10-Jun	22,847	2,826	0	0	0	0	0	0	0	25,673
11-Jun	6,238	39,356	0	0	0	0	0	0	0	45,594
12-Jun	3,158	28,672	5,413	0	0	0	0	0	0	37,243
13-Jun	3,674	23,539	7,793	2,953	0	0	0	0	0	37,959
14-Jun	5,389	16,948	8,958	1,992	5,587	0	0	0	0	38,874
15-Jun	6,156	14,158	9,675	5,764	4,516	0	0	0	0	40,269
16-Jun	6,213	10,935	13,343	4,141	1,107	164	0	0	2,718	38,621
17-Jun	13,439	0	4,874	3,107	0	0	0	0	6,538	27,958
18-Jun	24,033	1,275	0	686	0	19,829	0	0	0	45,823
19-Jun	36,537	0	0	0	0	34,535	0	0	2,154	73,226
20-Jun	31,284	3,070	0	0	0	29,634	0	0	10,386	74,374
21-Jun	2,646	72,394	0	0	0	28,239	0	0	9,657	112,936
22-Jun	16,111	17,412	10,640	0	0	4,383	0	0	0	48,546
23-Jun	39,313	0	9,351	3,138	0	0	0	0	0	51,802
24-Jun	7,683	31,498	0	1,947	6,067	0	0	0	0	47,195
25-Jun	4,542	26,828	7,224	0	3,033	0	0	0	0	41,627
26-Jun	20,509	0	13,086	740	0	0	0	0	0	34,139
27-Jun	26,738	0	0	366	0	0	0	0	0	27,104
28-Jun	17,924	0	0	0	14,962	0	0	0	0	32,886
29-Jun	17,570	0	0	0	0	0	0	0	0	17,570
30-Jun	23,025	901	0	0	0	1,821	0	0	6,302	32,049
1-Jul	24,478	0	0	0	0	23,193	0	0	15,326	62,997
2-Jul	19,476	0	0	0	0	3,712	0	0	0	23,188
3-Jul	3,963	38,133	0	0	0	0	0	0	0	42,096
4-Jul	2,980	19,650	8,211	0	0	0	0	0	0	30,841
5-Jul	1,295	18,201	9,961	4	0	0	0	0	0	29,461
6-Jul	1,322	13,499	9,724	160	0	0	0	0	0	24,705
7-Jul	805	10,225	12,523	985	0	0	0	7	0	24,538
8-Jul	1,075	10,443	11,424	2,462	0	0	0	3	0	25,404
9-Jul	1,978	12,427	11,460	1,607	0	0	0	0	0	27,472
10-Jul	2,080	7,181	10,951	2,182	0	0	0	0	0	22,394
11-Jul	7,056	0	4,621	1,075	0	0	0	0	0	12,752
12-Jul	25,901	0	0	1,108	0	0	0	0	0	27,009
13-Jul	24,158	0	0	0	0	0	0	0	0	24,158
14-Jul	18,007	30,489	0	0	0	0	0	0	0	48,496
15-Jul	4,061	35,698	1,185	0	0	0	0	0	0	40,944

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Table 22. (page 2 of 3)

Date	Chignik	Catch Areas ^{a,b,c}								Daily Total
	Weir Escapement	Chignik Lagoon	Hook Bay /Kujulik	Aniakchak	Eastern District	Cape Igvak	Western District	Perryville District	Southeast Mainland	
16-Jul	1,541	31,508	4,974	707	0	0	0	0	0	38,730
17-Jul	3,379	20,501	5,048	1,652	0	0	12,404	0	0	42,984
18-Jul	11,076	0	2,165	441	0	0	13,198	3,658	0	30,538
19-Jul	20,831	0	0	0	0	0	16,937	2,696	202	40,666
20-Jul	7,331	40,148	0	0	0	0	0	5,435	185	53,099
21-Jul	987	13,761	3,919	0	0	0	0	0	0	18,667
22-Jul	1,513	20,516	4,335	0	0	0	5,715	0	0	32,079
23-Jul	1,226	12,656	9,753	0	0	0	4,491	4,831	0	32,957
24-Jul	2,441	11,220	9,931	2,178	0	0	753	3,130	34,833	64,486
25-Jul	4,154	10,698	8,498	1,282	0	92	0	12,265	0	36,989
26-Jul	15,284	0	4,088	940	0	0	0	0	0	20,312
27-Jul	13,799	13,425	0	551	0	2,563	0	0	0	30,438
28-Jul	1,949	15,889	1,072	0	0	7,431	0	0	0	26,341
29-Jul	1,023	8,649	4,598	0	0	4,448	0	0	0	18,718
30-Jul	438	8,364	7,979	675	0	1,726	1,806	0	0	20,988
31-Jul	2,108	8,313	5,428	220	0	2,192	1,657	4,422	9,838	34,178
1-Aug	677	8,621	5,091	239	0	7,287	1,247	2,624	13,373	39,159
2-Aug	1,009	6,643	3,720	336	0	1,046	3,461	4,545	14,009	34,769
3-Aug	4456	0	3113	0	0	2856	1946	5730	310	18411
4-Aug	3,280	14,937	0	185	0	4,062	1,929	5,042	0	29,435
5-Aug	1,539	8,000	2,171	0	0	3,582	0	791	0	16,083
6-Aug	1,374	6,127	2,160	300	0	1,126	877	0	8,011	19,975
7-Aug	1,115	7,903	3,528	133	0	1,239	1,528	2,135	9,436	27,017
8-Aug	1,488	5,873	5,678	0	19	589	557	1,149	0	15,353
9-Aug	1,910	3,434	4,129	450	0	220	0	1,691	0	11,834
10-Aug	1,393	7,714	3,578	474	0	560	356	0	5,087	19,162
11-Aug	1,308	8,656	3,762	154	0	196	263	633	9,400	24,372
12-Aug	4,551	0	5,686	20	531	782	982	502	0	13,054
13-Aug	7,564	0	0	0	0	46	177	635	0	8,422
14-Aug	7,825	24,473	0	0	0	778	0	2,106	2,089	37,271
15-Aug	3,071	16,495	2,392	0	0	0	0	0	7,750	29,708
16-Aug	1,918	11,245	3,586	0	0	490	455	0	2,826	20,520
17-Aug	2,465	9,516	3,375	0	0	0	2,809	1,118	55	19,338
18-Aug	626	12,447	2,570	0	0	16	3,016	2,371	0	21,046
19-Aug	1,317	10,986	2,134	907	0	0	2,370	1,462	7,423	26,911
20-Aug	3,075	9,005	1,855	410	0	0	0	1,390	3,746	19,481
21-Aug	1,913	11,224	1,710	0	0	0	0	297	4,822	19,966
22-Aug	1,139	10,872	2,549	700	0	0	0	543	2,974	18,777
23-Aug	1,314	9,305	1,246	450	0	0	0	534	2,888	15,737
24-Aug	2,346	12,683	2,951	299	0	0	0	980	7,797	27,056
25-Aug	2,534	13,696	4,936	487	0	0	0	0	0	21,653
26-Aug	2,473	13,365	7,107	1,030	0	0	0	0	0	23,975
27-Aug	2,139	11,560	7,120	2,168	0	0	0	0	0	22,987
28-Aug	1,697	9,174	5,588	1,237	0	0	0	0	0	17,696
29-Aug	1,924	10,398	5,439	1,843	0	0	0	0	0	19,604
30-Aug	1,998	10,802	3,917	1,942	0	0	0	2,285	0	20,944

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Table 22. (page 3 of 3)

Date	Chignik	Catch Areas ^{a,b,c}								Daily Total
	Weir Escapement	Chignik Lagoon	Hook Bay /Kujulik	Aniakchak	Eastern District	Cape Igvak	Western District	Perryville District	Southeast Mainland	
31-Aug	1,388	7,503	3,321	1,144	0	0	0	3,311	0	16,667
1-Sep	3,977	0	3,581	791	0	0	351	1,727	0	10,427
2-Sep	6,642	0	0	1,126	0	0	0	5,860	0	13,628
3-Sep	2,761	14,925	0	0	0	0	0	2,572	0	20,258
4-Sep	719	3,888	4,905	0	0	0	0	0	0	9,512
5-Sep	1,143	6,181	4,249	433	0	0	42	0	0	12,048
6-Sep	1,768	9,556	3,331	0	0	0	0	939	10,966	26,560
7-Sep	2,226	12,035	2,320	0	0	0	0	135	0	16,716
8-Sep	6,379	0	1,000	0	0	0	0	587	0	7,966
9-Sep	3,996	0	0	619	0	0	0	1,349	6,310	12,274
10-Sep	1,661	8,980	0	0	0	0	0	808	12,259	23,708
11-Sep	1,087	5,873	298	0	0	0	0	0	15,941	23,199
12-Sep	1,355	7,327	0	0	0	0	0	0	8,790	17,472
13-Sep	1,752	9,469	600	0	0	0	0	2,466	0	14,287
14-Sep	1,059	5,722	299	0	0	0	0	576	0	7,656
15-Sep	751	4,060	193	0	0	0	0	625	0	5,629
16-Sep	125	677	123	0	0	0	547	221	1,832	3,525
17-Sep	0	0	0	0	0	0	0	0	3,251	3,251
18-Sep	0	0	0	0	0	0	0	0	2,266	2,266
19-Sep	0	0	0	0	0	0	0	0	3,077	3,077
20-Sep	0	0	0	0	0	0	0	0	1,799	1,799
24-Sep	0	0	0	0	0	0	0	0	350	350
27-Sep	0	0	0	0	0	0	0	0	789	789
1-Oct	0	0	0	0	0	0	0	0	494	494
2-Oct	0	0	0	0	0	0	0	0	550	550
3-Oct	0	0	0	0	0	0	0	0	124	124
4-Oct	0	0	0	0	0	0	0	0	430	430
9-Oct	0	0	0	0	0	0	0	0	122	122
10-Oct	0	0	0	0	0	0	0	0	321	321
Total	739,920	1,083,707	367,516	60,940	35,822	197,696	79,874	96,186	269,806	2,931,467

^aAssigned travel time to Chignik Lagoon from Cape Igvak and Southeastern District Mainland = 5 days, Eastern and Perryville Districts = 3 days, Western and Aniakchak = 2 days, Hook Bay and Kujulik Bay = 1 day, and Chignik weir = (-) 1 day.

^bDoes not include catch designated for personal or subsistence use.

^cIncludes 80% of the catches for the entire season from Cape Igvak and Southeastern District Mainland.

Table 23. Daily and cumulative sockeye salmon escapement and catch as determined by postseason scale pattern analysis for the Black Lake stock (adjusted to Chignik Lagoon date), 1995.

Date	Escapement Counts	Catch ^{a,b}	Daily Total	Cumulative Catch and Escapement	Cumulative Percent
31-May	120	0	120	120	0.0
1-Jun	314	0	314	434	0.0
2-Jun	1,387	0	1,387	1,821	0.2
3-Jun	1,022	0	1,022	2,843	0.3
4-Jun	1,200	0	1,200	4,043	0.4
5-Jun	3,352	0	3,352	7,395	0.7
6-Jun	11,669	0	11,669	19,064	1.8
7-Jun	7,995	0	7,995	27,059	2.6
8-Jun	13,237	846	14,083	41,142	4.0
9-Jun	19,214	0	19,214	60,356	5.9
10-Jun	19,196	2,374	21,570	81,926	7.9
11-Jun	5,081	32,056	37,137	119,063	11.5
12-Jun	2,489	26,871	29,360	148,423	14.4
13-Jun	2,799	26,113	28,912	177,335	17.2
14-Jun	4,056	25,205	29,261	206,596	20.0
15-Jun	4,579	25,372	29,951	236,547	22.9
16-Jun	4,566	23,813	28,379	264,926	25.7
17-Jun	9,754	10,538	20,292	285,218	27.6
18-Jun	17,226	15,619	32,845	318,063	30.8
19-Jun	25,859	25,966	51,825	369,888	35.9
20-Jun	21,857	31,233	53,090	422,978	41.0
21-Jun	1,787	76,999	78,786	501,764	48.6
22-Jun	10,516	22,667	33,183	534,947	51.9
23-Jun	24,785	7,873	32,658	567,605	55.0
24-Jun	4,675	24,045	28,720	596,325	57.8
25-Jun	2,667	21,774	24,441	620,766	60.2
26-Jun	12,247	8,256	20,503	641,269	62.2
27-Jun	16,212	222	16,434	657,703	63.8
28-Jun	11,016	9,196	20,212	677,915	65.7
29-Jun	10,930	0	10,930	688,845	66.8
30-Jun	14,475	5,673	20,148	708,993	68.7
1-Jul	15,635	24,605	40,240	749,233	72.6
2-Jul	12,568	2,396	14,964	764,197	74.1
3-Jul	2,570	24,725	27,295	791,492	76.7
4-Jul	1,935	18,085	20,020	811,512	78.7
5-Jul	837	18,201	19,038	830,550	80.5
6-Jul	846	14,956	15,802	846,352	82.0
7-Jul	452	13,304	13,756	860,108	83.4
8-Jul	519	11,743	12,262	872,370	84.6

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Table 23. (page 2 of 2)

Date	Escapement Counts	Catch ^{a,b}	Daily Total	Cumulative Catch and Escapement	Cumulative Percent
9-Jul	898	11,572	12,470	884,840	85.8
10-Jul	886	8,649	9,535	894,375	86.7
11-Jul	2,811	2,271	5,082	899,457	87.2
12-Jul	9,619	413	10,032	909,489	88.2
13-Jul	8,338	0	8,338	917,827	89.0
14-Jul	5,753	9,742	15,495	933,322	90.5
15-Jul	1,211	11,001	12,212	945,534	91.7
16-Jul	426	10,299	10,725	956,259	92.7
17-Jul	863	10,119	10,982	967,241	93.8
18-Jul	2,591	4,554	7,145	974,386	94.5
19-Jul	4,424	4,212	8,636	983,022	95.3
20-Jul	1,397	8,726	10,123	993,145	96.3
21-Jul	177	3,175	3,352	996,497	96.6
22-Jul	255	5,153	5,408	1,001,905	97.1
23-Jul	194	5,004	5,198	1,007,103	97.6
24-Jul	359	9,118	9,477	1,016,580	98.5
25-Jul	566	4,476	5,042	1,021,622	99.0
26-Jul	1,922	633	2,555	1,024,177	99.3
27-Jul	1,592	1,926	3,518	1,027,695	99.6
28-Jul	167	2,087	2,254	1,029,949	99.8
29-Jul	58	997	1,055	1,031,004	99.9
30-Jul	12	572	584	1,031,588	100.0

^a Includes 80% of the catches for the entire season from Cape Igvak and Southeastern District Mainland.

^b Does not include catch designated for personal or subsistence use.

Table 24. Daily and cumulative sockeye salmon escapement and catch as determined by postseason scale pattern analysis for the Chignik Lake Stock (adjusted to Chignik Lagoon date), 1995.

Date	Escapement Counts	Catch ^a	Daily Total	Cumulative Catch and Escapement	Cumulative Percent
31-May	7	0	7	7	0.0
1-Jun	21	0	21	28	0.0
2-Jun	102	0	102	130	0.0
3-Jun	84	0	84	214	0.0
4-Jun	108	0	108	322	0.0
5-Jun	329	0	329	651	0.0
6-Jun	1,243	0	1,243	1,894	0.0
7-Jun	919	0	919	2,813	0.1
8-Jun	1,636	105	1,741	4,554	0.2
9-Jun	2,990	0	2,990	7,544	0.4
10-Jun	3,651	452	4,103	11,647	0.6
11-Jun	1,157	7,300	8,457	20,104	1.1
12-Jun	669	7,214	7,883	27,987	1.5
13-Jun	875	8,172	9,047	37,034	2.0
14-Jun	1,333	8,280	9,613	46,647	2.5
15-Jun	1,577	8,741	10,318	56,965	3.0
16-Jun	1,647	8,595	10,242	67,207	3.5
17-Jun	3,685	3,981	7,666	74,873	3.9
18-Jun	6,807	6,171	12,978	87,851	4.6
19-Jun	10,678	10,723	21,401	109,252	5.8
20-Jun	9,426	12,984	22,410	131,662	6.9
21-Jun	859	35,793	36,652	168,314	8.9
22-Jun	5,595	11,265	16,860	185,174	9.8
23-Jun	14,530	4,616	19,146	204,320	10.8
24-Jun	3,008	15,467	18,475	222,795	11.7
25-Jun	1,875	15,311	17,186	239,981	12.7
26-Jun	8,262	5,570	13,832	253,813	13.4
27-Jun	10,526	144	10,670	264,483	13.9
28-Jun	6,908	5,766	12,674	277,157	14.6
29-Jun	6,640	0	6,640	283,797	15.0
30-Jun	8,550	3,351	11,901	295,698	15.6
1-Jul	8,843	13,914	22,757	318,455	16.8
2-Jul	6,908	1,316	8,224	326,679	17.2
3-Jul	1,393	13,408	14,801	341,480	18.0
4-Jul	1,045	9,776	10,821	352,301	18.6
5-Jul	458	9,965	10,423	362,724	19.1
6-Jul	476	8,427	8,903	371,627	19.6
7-Jul	353	10,429	10,782	382,409	20.2
8-Jul	556	12,586	13,142	395,551	20.9

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Table 24. (page 2 of 3)

Date	Escapement Counts	Catch	Daily Total	Cumulative Catch and Escapement	Cumulative Percent
9-Jul	1,080	13,922	15,002	410,553	21.6
10-Jul	1,194	11,665	12,859	423,412	22.3
11-Jul	4,245	3,432	7,677	431,089	22.7
12-Jul	16,282	698	16,980	448,069	23.6
13-Jul	15,820	0	15,820	463,889	24.5
14-Jul	12,254	20,747	33,001	496,890	26.2
15-Jul	2,850	25,882	28,732	525,622	27.7
16-Jul	1,115	26,890	28,005	553,627	29.2
17-Jul	2,516	29,486	32,002	585,629	30.9
18-Jul	8,485	14,908	23,393	609,022	32.1
19-Jul	16,407	15,623	32,030	641,052	33.8
20-Jul	5,934	37,042	42,976	684,028	36.1
21-Jul	810	14,505	15,315	699,343	36.9
22-Jul	1,258	25,413	26,671	726,014	38.3
23-Jul	1,032	26,727	27,759	753,773	39.7
24-Jul	2,082	52,927	55,009	808,782	42.6
25-Jul	3,588	28,359	31,947	840,729	44.3
26-Jul	13,362	4,395	17,757	858,486	45.3
27-Jul	12,207	14,630	26,837	885,323	46.7
28-Jul	1,782	22,305	24,087	909,410	48.0
29-Jul	965	16,698	17,663	927,073	48.9
30-Jul	426	19,978	20,404	947,477	50.0
31-Jul	2,108	32,070	34,178	981,655	51.8
1-Aug	677	38,482	39,159	1,020,814	53.8
2-Aug	1,009	33,760	34,769	1,055,583	55.7
3-Aug	4,456	13,955	18,411	1,073,994	56.6
4-Aug	3,280	26,155	29,435	1,103,429	58.2
5-Aug	1,539	14,544	16,083	1,119,512	59.0
6-Aug	1,374	18,601	19,975	1,139,487	60.1
7-Aug	1,115	25,902	27,017	1,166,504	61.5
8-Aug	1,488	13,865	15,353	1,181,857	62.3
9-Aug	1,910	9,924	11,834	1,193,691	62.9
10-Aug	1,393	17,769	19,162	1,212,853	64.0
11-Aug	1,308	23,064	24,372	1,237,225	65.2
12-Aug	4,551	8,503	13,054	1,250,279	65.9
13-Aug	7,564	858	8,422	1,258,701	66.4
14-Aug	7,825	29,446	37,271	1,295,972	68.3
15-Aug	3,071	26,637	29,708	1,325,680	69.9
16-Aug	1,918	18,602	20,520	1,346,200	71.0
17-Aug	2,465	16,873	19,338	1,365,538	72.0
18-Aug	626	20,420	21,046	1,386,584	73.1
19-Aug	1,317	25,282	26,599	1,413,183	74.5

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Table 24. (page 3 of 3)

Date	Escapement Counts	Catch	Daily Total	Cumulative Catch and Escapement	Cumulative Percent
20-Aug	3,075	16,406	19,481	1,432,664	75.6
21-Aug	1,913	18,053	19,966	1,452,630	76.6
22-Aug	1,139	17,638	18,777	1,471,407	77.6
23-Aug	1,314	14,423	15,737	1,487,144	78.4
24-Aug	2,346	24,710	27,056	1,514,200	79.9
25-Aug	2,534	19,119	21,653	1,535,853	81.0
26-Aug	2,473	21,502	23,975	1,559,828	82.3
27-Aug	2,139	20,848	22,987	1,582,815	83.5
28-Aug	1,697	15,999	17,696	1,600,511	84.4
29-Aug	1,924	17,680	19,604	1,620,115	85.4
30-Aug	1,998	18,946	20,944	1,641,059	86.5
31-Aug	1,388	15,279	16,667	1,657,726	87.4
1-Sep	3,977	6,450	10,427	1,668,153	88.0
2-Sep	6,642	6,986	13,628	1,681,781	88.7
3-Sep	2,761	17,497	20,258	1,702,039	89.8
4-Sep	719	8,793	9,512	1,711,551	90.3
5-Sep	1,143	10,905	12,048	1,723,599	90.9
6-Sep	1,768	24,792	26,560	1,750,159	92.3
7-Sep	2,226	14,490	16,716	1,766,875	93.2
8-Sep	6,379	1,587	7,966	1,774,841	93.6
9-Sep	3,996	8,278	12,274	1,787,115	94.2
10-Sep	1,661	22,047	23,708	1,810,823	95.5
11-Sep	1,087	22,112	23,199	1,834,022	96.7
12-Sep	1,355	16,117	17,472	1,851,494	97.6
13-Sep	1,752	12,535	14,287	1,865,781	98.4
14-Sep	1,059	6,597	7,656	1,873,437	98.8
15-Sep	751	4,878	5,629	1,879,066	99.1
16-Sep	125	3,400	3,525	1,882,591	99.3
17-Sep	0	3,251	3,251	1,885,842	99.5
18-Sep	0	2,266	2,266	1,888,108	99.6
19-Sep	0	3,077	3,077	1,891,185	99.7
20-Sep	0	1,799	1,799	1,892,984	99.8
24-Sep	0	350	350	1,893,334	99.9
27-Sep	0	789	789	1,894,123	99.9
1-Oct	0	494	494	1,894,617	99.9
2-Oct	0	550	550	1,895,167	99.9
3-Oct	0	124	124	1,895,291	100.0
4-Oct	0	430	430	1,895,721	100.0
9-Oct	0	122	122	1,895,843	100.0
10-Oct	0	321	321	1,896,164	100.0

^a Includes 80% of the catches for the entire season from Cape Igvak and Southeastern District Mainland.

Table 25. Black Lake weekly sockeye salmon escapement, by age class, estimated by postseason scale pattern analysis, 1995.

Statistical Week		Age Class													Total
		0.2	1.1	0.3	1.2	2.1	1.3	2.2	1.4	2.3	3.2	2.4	3.3	Other	
May 31-Jun 6	Number	106	0	0	2,075	0	9,497	3,482	70	3,834	0	0	0	0	19,064
	Percent	0.6	0.0	0.0	10.9	0.0	49.8	18.3	0.4	20.1	0.0	0.0	0.0	0.0	
Jun 7-Jun 13	Number	318	0	37	7,826	0	35,416	12,348	336	13,693	37	0	0	0	70,011
	Percent	0.5	0.0	0.1	11.2	0.0	50.6	17.6	0.5	19.6	0.1	0.0	0.0	0.0	
Jun 14-Jun 20	Number	298	0	171	10,321	0	49,769	13,519	682	12,966	43	0	0	128	87,897
	Percent	0.3	0.0	0.2	11.7	0.0	56.6	15.4	0.8	14.8	0.0	0.0	0.0	0.1	
Jun 21-Jun 27	Number	72	90	252	8,326	35	36,612	15,369	145	11,950	0	0	0	36	72,887
	Percent	0.1	0.1	0.3	11.4	0.0	50.2	21.1	0.2	16.4	0.0	0.0	0.0	0.0	
Jun 28-Jul 4	Number	0	47	234	8,706	174	26,792	18,355	34	14,707	74	4	3	0	69,130
	Percent	0.0	0.1	0.3	12.6	0.3	38.8	26.6	0.0	21.3	0.1	0.0	0.0	0.0	
Jul 5-Jul 11	Number	0	1	1	601	0	1,869	1,112	18	3,567	24	37	10	7	7,247
	Percent	0.0	0.0	0.0	8.3	0.0	25.8	15.3	0.2	49.2	0.3	0.5	0.1	0.1	
Jul 12-Jul 18	Number	0	0	0	2,100	0	6,180	2,540	60	17,745	9	112	48	9	28,803
	Percent	0.0	0.0	0.0	7.3	0.0	21.5	8.8	0.2	61.6	0.0	0.4	0.2	0.0	
Jul 19-Jul 25	Number	0	2	0	409	0	1,690	547	3	4,696	5	5	15	0	7,372
	Percent	0.0	0.0	0.0	5.5	0.0	22.9	7.4	0.0	63.7	0.1	0.1	0.2	0.0	
Jul 26-Aug 1	Number	0	7	0	213	0	742	333	7	2,413	22	7	8	0	3,752
	Percent	0.0	0.2	0.0	5.7	0.0	19.8	8.9	0.2	64.3	0.6	0.2	0.2	0.0	
Total		794	147	695	40,577	209	168,567	67,605	1,355	85,571	214	165	84	180	366,163
Percent		0.2	0.0	0.2	11.1	0.1	46.0	18.5	0.4	23.4	0.1	0.0	0.0	0.0	

Table 26. Chignik Lake weekly sockeye salmon escapement, by age class, estimated by postseason scale pattern analysis, 1995.

Statistical Week		Age Class													Total
		0.2	1.1	0.3	1.2	2.1	1.3	2.2	1.4	2.3	3.2	2.4	3.3	Other	
May 31-Jun 6	Number	10	0	0	206	0	944	346	7	381	0	0	0	0	1,894
	Percent	0.5	0.0	0.0	10.9	0.0	49.8	18.3	0.4	20.1	0.0	0.0	0.0	0.0	
Jun 7-Jun 13	Number	51	0	8	1,339	0	6,043	2,078	61	2,309	8	0	0	0	11,897
	Percent	0.4	0.0	0.1	11.3	0.0	50.8	17.5	0.5	19.4	0.1	0.0	0.0	0.0	
Jun 14-Jun 20	Number	121	0	68	4,126	0	19,937	5,402	273	5,159	16	0	0	52	35,154
	Percent	0.3	0.0	0.2	11.7	0.0	56.7	15.4	0.8	14.7	0.0	0.0	0.0	0.1	
Jun 21-Jun 27	Number	41	56	156	5,106	23	22,312	9,504	81	7,356	0	0	0	20	44,655
	Percent	0.1	0.1	0.3	11.4	0.1	50.0	21.3	0.2	16.5	0.0	0.0	0.0	0.0	
Jun 28-Jul 4	Number	0	27	138	5,093	103	15,670	10,704	19	8,488	41	2	1	0	40,286
	Percent	0.0	0.1	0.3	12.6	0.3	38.9	26.6	0.0	21.1	0.1	0.0	0.0	0.0	
Jul 5-Jul 11	Number	0	0	0	703	0	2,115	1,156	23	4,287	19	43	9	9	8,364
	Percent	0.0	0.0	0.0	8.4	0.0	25.3	13.8	0.3	51.3	0.2	0.5	0.1	0.1	
Jul 12-Jul 18	Number	0	0	0	4,247	0	12,716	5,113	116	36,778	16	217	101	16	59,320
	Percent	0.0	0.0	0.0	7.2	0.0	21.4	8.6	0.2	62.0	0.0	0.4	0.2	0.0	
Jul 19-Jul 25	Number	0	10	0	1,723	0	7,093	2,330	15	19,828	29	20	63	0	31,111
	Percent	0.0	0.0	0.0	5.5	0.0	22.8	7.5	0.0	63.7	0.1	0.1	0.2	0.0	
Jul 26-Aug 1	Number	0	61	0	1,780	17	5,954	2,818	61	20,481	203	69	82	0	31,526
	Percent	0.0	0.2	0.0	5.6	0.1	18.9	8.9	0.2	65.0	0.6	0.2	0.3	0.0	
Aug 2-Aug 8	Number	0	24	0	598	96	713	1,271	29	11,048	232	110	140	0	14,261
	Percent	0.0	0.2	0.0	4.2	0.7	5.0	8.9	0.2	77.5	1.6	0.8	1.0	0.0	
Aug 9-Aug 15	Number	0	1	0	276	28	770	1,666	26	24,026	331	303	195	0	27,622
	Percent	0.0	0.0	0.0	1.0	0.1	2.8	6.0	0.1	87.0	1.2	1.1	0.7	0.0	

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Table 26. (page 2 of 2)

Statistical Week		Age Class													Total
		0.2	1.1	0.3	1.2	2.1	1.3	2.2	1.4	2.3	3.2	2.4	3.3	Other	
Aug 16-Aug 22	Number	0	6	6	317	6	819	728	16	10,346	20	117	72	0	12,453
	Percent	0.0	0.0	0.0	2.5	0.0	6.6	5.8	0.1	83.1	0.2	0.9	0.6	0.0	
Aug 23-Aug 29	Number	0	0	0	397	0	1,129	824	31	11,771	0	153	122	0	14,427
	Percent	0.0	0.0	0.0	2.8	0.0	7.8	5.7	0.2	81.6	0.0	1.1	0.8	0.0	
Aug30-Sep 5	Number	0	0	0	512	0	1,457	1,063	39	15,202	0	197	158	0	18,628
	Percent	0.0	0.0	0.0	2.7	0.0	7.8	5.7	0.2	81.6	0.0	1.1	0.8	0.0	
Sep 6-Sep 12	Number	0	0	0	508	0	1,445	1,054	39	15,075	0	195	156	0	18,472
	Percent	0.0	0.0	0.0	2.8	0.0	7.8	5.7	0.2	81.6	0.0	1.1	0.8	0.0	
Sep 13-Sep19	Number	0	0	0	101	0	288	210	8	3,010	0	39	31	0	3,687
	Percent	0.0	0.0	0.0	2.7	0.0	7.8	5.7	0.2	81.6	0.0	1.1	0.8	0.0	
Total		223	185	376	27,032	273	99,405	46,267	844	195,545	915	1,465	1,130	97	373,757
Percent		0.1	0.0	0.1	7.2	0.1	26.6	12.4	0.2	52.3	0.2	0.4	0.3	0.0	

Table 27. Black Lake weekly sockeye salmon catch, by age class, estimated by postseason scale pattern analysis, 1995.

		Age Class ^{a,b}													Total
Statistical Week		0.2	1.1	0.3	1.2	2.1	1.3	2.2	1.4	2.3	3.2	2.4	3.3	Other	
Jun 7-Jun 13	Number	244	0	131	10,327	0	45,854	14,580	598	16,395	131	0	0	0	88,260
	Percent	0.3	0.0	0.1	11.7	0.0	52.0	16.5	0.7	18.6	0.1	0.0	0.0	0.0	
Jun 14-Jun 20	Number	484	0	306	18,594	0	87,907	24,449	1,223	24,449	127	0	0	178	157,746
	Percent	0.3	0.0	0.2	11.8	0.0	55.7	15.5	0.8	15.5	0.1	0.0	0.0	0.1	
Jun 21-Jun 27	Number	324	153	475	18,232	7	86,752	30,122	647	24,962	0	0	0	162	161,836
	Percent	0.2	0.1	0.3	11.3	0.0	53.6	18.6	0.4	15.4	0.0	0.0	0.0	0.1	
Jun 28-Jul 4	Number	0	98	217	9,154	111	30,316	21,469	91	22,923	241	36	24	0	84,680
	Percent	0.0	0.1	0.3	10.8	0.1	35.8	25.4	0.1	27.1	0.3	0.0	0.0	0.0	
Jul 5-Jul 11	Number	0	12	12	6,668	0	21,957	14,943	158	35,887	423	425	144	67	80,696
	Percent	0.0	0.0	0.0	8.3	0.0	27.2	18.5	0.2	44.5	0.5	0.5	0.2	0.1	
Jul 12-Jul 18	Number	0	0	0	3,028	0	9,676	3,474	65	29,665	0	129	91	0	46,128
	Percent	0.0	0.0	0.0	6.6	0.0	21.0	7.5	0.1	64.3	0.0	0.3	0.2	0.0	
Jul 19-Jul 25	Number	0	26	0	2,186	0	8,932	3,090	27	25,416	77	28	82	0	39,864
	Percent	0.0	0.1	0.0	5.5	0.0	22.4	7.8	0.1	63.8	0.2	0.1	0.2	0.0	
Jul 26-Aug 1	Number	0	13	0	349	6	1,116	563	13	4,076	45	15	19	0	6,215
	Percent	0.0	0.2	0.0	5.6	0.1	17.9	9.1	0.2	65.6	0.7	0.2	0.3	0.0	
Total		1,052	302	1,141	68,538	124	292,510	112,719	2,822	183,773	1,044	633	360	407	665,425
Percent		0.2	0.0	0.2	10.3	0.0	44.0	16.9	0.4	27.6	0.2	0.1	0.1	0.1	

^b Does not include catch designated for personal or subsistence use.

^a Includes 80% of the catches for the entire season from Cape Igvak and Southeastern District Mainland.

Table 28. Chignik Lake weekly sockeye salmon catch, by age class, estimate by postseason scale pattern analysis, 1995.

Statistical Week		Age Class ^{a,b}													Total
		0.2	1.1	0.3	1.2	2.1	1.3	2.2	1.4	2.3	3.2	2.4	3.3	Other	
Jun 7-Jun 13	Number	62	0	36	2,726	0	12,094	3,825	160	4,304	36	0	0	0	23,243
	Percent	0.3	0.0	0.2	11.7	0.0	52.0	16.5	0.7	18.5	0.2	0.0	0.0	0.0	
Jun 14-Jun 20	Number	186	0	115	7,006	0	33,233	9,215	461	9,144	45	0	0	70	59,475
	Percent	0.3	0.0	0.2	11.8	0.0	55.9	15.5	0.8	15.4	0.1	0.0	0.0	0.1	
Jun 21-Jun 27	Number	157	93	269	9,895	5	46,803	16,768	314	13,784	0	0	0	78	88,166
	Percent	0.2	0.1	0.3	11.2	0.0	53.1	19.0	0.4	15.6	0.0	0.0	0.0	0.1	
Jun 28-Jul 4	Number	0	54	124	5,175	65	17,095	12,071	50	12,734	131	19	13	0	47,531
	Percent	0.0	0.1	0.3	10.9	0.1	36.0	25.4	0.1	26.8	0.3	0.0	0.0	0.0	
Jul 5-Jul 11	Number	0	6	6	5,978	0	18,959	11,965	172	32,507	287	376	95	75	70,426
	Percent	0.0	0.0	0.0	8.5	0.0	26.9	17.0	0.2	46.2	0.4	0.5	0.1	0.1	
Jul 12-Jul 18	Number	0	0	0	7,721	0	25,014	8,908	159	76,257	0	317	235	0	118,611
	Percent	0.0	0.0	0.0	6.5	0.0	21.1	7.5	0.1	64.3	0.0	0.3	0.2	0.0	
Jul 19-Jul 25	Number	0	146	0	11,016	0	44,629	15,701	151	127,949	437	156	411	0	200,596
	Percent	0.0	0.1	0.0	5.5	0.0	22.2	7.8	0.1	63.8	0.2	0.1	0.2	0.0	
Jul 26-Aug 1	Number	0	302	0	8,047	444	21,038	13,780	302	101,911	1,462	524	748	0	148,558
	Percent	0.0	0.2	0.0	5.4	0.3	14.2	9.3	0.2	68.6	1.0	0.4	0.5	0.0	
Aug 2-Aug 8	Number	0	236	0	5,821	929	7,361	12,680	304	114,409	2,396	1,209	1,437	0	146,782
	Percent	0.0	0.2	0.0	4.0	0.6	5.0	8.6	0.2	77.9	1.6	0.8	1.0	0.0	
Aug 9-Aug 15	Number	0	3	0	1,071	136	3,044	6,826	126	101,251	1,503	1,363	878	0	116,201
	Percent	0.0	0.0	0.0	0.9	0.1	2.6	5.9	0.1	87.1	1.3	1.2	0.8	0.0	
Aug 16-Aug 22	Number	0	82	82	3,456	82	8,782	7,717	164	110,724	196	1,259	730	0	133,274
	Percent	0.0	0.1	0.1	2.6	0.1	6.6	5.8	0.1	83.1	0.1	0.9	0.5	0.0	

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Table 28. (page 2 of 2)

Statistical Week	Statistical Week	Age Class													Total
		0.2	1.1	0.3	1.2	2.1	1.3	2.2	1.4	2.3	3.2	2.4	3.3	Other	
Aug 23-Aug 29	Number	0	0	0	3,691	0	10,504	7,665	284	109,582	0	1,419	1,136	0	134,281
	Percent	0.0	0.0	0.0	2.7	0.0	7.8	5.7	0.2	81.6	0.0	1.1	0.8	0.0	
Aug30-Sep 5	Number	0	0	0	2,332	0	6,638	4,844	179	69,248	0	897	718	0	84,856
	Percent	0.0	0.0	0.0	2.7	0.0	7.8	5.7	0.2	81.6	0.0	1.1	0.8	0.0	
Sep 6-Sep 12	Number	0	0	0	3,007	0	8,560	6,246	231	89,297	0	1,157	925	0	109,423
	Percent	0.0	0.0	0.0	2.7	0.0	7.8	5.7	0.2	81.6	0.0	1.1	0.8	0.0	
Sep 13-Sep19	Number	0	0	0	990	0	2,816	2,055	76	29,382	0	381	304	0	36,004
	Percent	0.0	0.0	0.0	2.7	0.0	7.8	5.7	0.2	81.6	0.0	1.1	0.8	0.0	
Sep 20-Oct 3	Number	0	0	0	113	0	321	234	9	3,351	0	43	35	0	4,106
	Percent	0.0	0.0	0.0	2.8	0.0	7.8	5.7	0.2	81.6	0.0	1.0	0.9	0.0	
Oct4-Oct 10	Number	0	0	0	24	0	68	50	2	713	0	9	7	0	873
	Percent	0.0	0.0	0.0	2.7	0.0	7.8	5.7	0.2	81.7	0.0	1.0	0.8	0.0	
Total		405	922	632	78,069	1,661	266,959	140,550	3,144	1,006,547	6,493	9,129	7,672	223	1,522,406
Percent		0.0	0.1	0.0	5.1	0.1	17.5	9.2	0.2	66.1	0.4	0.6	0.5	0.0	

^a Includes 80% of the catches for the entire season from Cape Igvak and Southeastern District Mainland.

^b Does not include catch designated for personal or subsistence use.

Table 29. Black Lake and Chignik Lake sockeye salmon escapement, catch, and total run estimates, by age class, based on scale pattern analysis, 1995.

	Age Class ^{a,b}													Total
	0.2	1.1	0.3	1.2	2.1	1.3	2.2	1.4	2.3	3.2	2.4	3.3	Other	
<i>Black Lake</i>														
Escapement	794	147	695	40,577	209	168,567	67,605	1,355	85,571	214	165	84	180	366,163
Catch	1,036	299	1,128	67,949	124	289,630	111,864	2,790	183,026	1,044	633	360	399	660,282
Run	1,830	446	1,823	108,526	333	458,197	179,469	4,145	268,597	1,258	798	444	579	1,026,445
Percent	0.2	0.0	0.2	10.6	0.0	44.6	17.5	0.4	26.2	0.1	0.1	0.0	0.1	100
<i>Chignik Lake</i>														
Escapement	223	185	376	27,032	273	99,405	46,267	844	195,545	915	1,465	1,130	97	373,757
Catch	405	922	632	78,069	1,661	266,959	140,550	3,144	1,006,547	6,493	9,129	7,672	223	1,522,406
Run	628	1,107	1,008	105,101	1,934	366,364	186,817	3,988	1,202,092	7,408	10,594	8,802	320	1,896,163
Percent	0.0	0.1	0.1	5.5	0.1	19.3	9.9	0.2	63.4	0.4	0.6	0.5	0.0	100.0
<i>Total Run</i>														
Escapement	1,017	332	1,071	67,609	482	267,972	113,872	2,199	281,116	1,129	1,630	1,214	277	739,920
Catch	1,441	1,221	1,760	146,018	1,785	556,589	252,414	5,934	1,189,573	7,537	9,762	8,032	622	2,182,688
Run	2,458	1,553	2,831	213,627	2,267	824,561	366,286	8,133	1,470,689	8,666	11,392	9,246	899	2,922,608
Percent	0.1	0.1	0.1	7.3	0.1	28.2	12.5	0.3	50.3	0.3	0.4	0.3	0.0	100.0

^aIncludes 80% of the catches for the entire season from Cape Igvak and Southeastern District Mainland.

^bDoes not include catch designated for personal or subsistence use.

Table 30. Sockeye salmon escapement, catch, and total run for Black Lake, Chignik Lake, and combined runs, based on postseason scale pattern analysis, 1954-1995.

Escapement and Catch ^{a,b}									
Year	Black Lake			Chignik Lake			Combined		
	Escapement	Catch	Total	Escapement	Catch	Total	Escapement	Catch	Total
1954	184,953	72,334	257,287	277,912	19,232	297,144	462,865	91,566	554,431
1955	256,757	179,539	436,296	201,409	168,987	370,396	458,166	348,526	806,692
1956	289,096	246,442	535,538	483,024	421,251	904,275	772,120	667,693	1,439,813
1957	192,479	77,423	269,902	328,779	224,757	553,536	521,258	302,180	823,438
1958	120,862	141,180	262,042	212,594	179,949	392,543	333,456	321,129	654,585
1959	112,226	165,000	277,226	308,645	251,547	560,192	420,871	416,547	837,418
1960	251,567	274,048	525,615	357,230	418,356	775,586	608,797	692,404	1,301,201
1961	140,714	53,852	194,566	254,970	278,609	533,579	395,684	332,461	728,145
1962	167,602	71,562	239,164	324,860	292,528	617,388	492,462	364,090	856,552
1963	332,536	80,258	412,794	200,314	323,080	523,394	532,850	403,338	936,188
1964	137,073	142,380	279,453	166,625	472,510	639,135	303,698	614,890	918,588
1965	307,192	497,018	804,210	163,151	169,576	332,727	470,343	666,594	1,136,937
1966	383,545	87,169	470,714	183,525	162,638	346,163	567,070	249,807	816,877
1967	328,000	154,134	482,134	189,000	350,901	539,901	517,000	505,035	1,022,035
1968	342,343	542,598	884,941	244,836	641,693	886,529	587,179	1,184,291	1,771,470
1969	366,589	263,170	629,759	132,055	235,960	368,015	498,644	499,130	997,774
1970	536,257	1,566,065	2,102,322	119,952	262,244	382,196	656,209	1,828,309	2,484,518
1971	671,668	555,832	1,227,500	232,501	709,190	941,691	904,169	1,265,022	2,169,191
1972	326,320	43,220	369,540	231,270	386,615	617,885	557,590	429,835	987,425
1973	533,047	569,854	1,102,901	247,144	396,114	643,258	780,191	965,968	1,746,159
1974	351,701	174,883	526,584	364,812	675,607	1,040,219	716,313	850,490	1,566,803
1975	308,914	4,019	312,933	314,084	421,414	735,498	622,998	425,433	1,048,431
1976	551,254	548,107	1,099,361	341,828	778,380	1,120,208	893,082	1,326,487	2,219,569
1977	482,247	439,693	921,940	463,561	1,696,767	2,160,328	945,808	2,136,460	3,082,268
1978	458,660	1,070,487	1,529,147	263,009	754,838	1,017,847	721,669	1,825,325	2,546,994
1979	385,694	207,122	592,816	317,889	944,964	1,262,853	703,583	1,152,086	1,855,669
1980	311,332	170,629	481,961	279,729	778,014	1,057,743	591,061	948,643	1,539,704
1981	438,540	779,755	1,218,295	301,092	1,509,959	1,811,051	739,632	2,289,714	3,029,346
1982	616,117	1,325,041	1,941,158	305,193	451,789	756,982	921,310	1,776,830	2,698,140
1983	426,177	977,548	1,403,725	441,561	1,467,060	1,908,621	867,738	2,444,608	3,312,346
1984	597,712	3,245,482	3,843,194	268,496	353,141	621,637	866,208	3,598,623	4,464,831
1985	377,516	650,340	1,027,856	369,262	490,151	859,413	746,778	1,140,491	1,887,269
1986	566,088	1,371,935	1,938,023	207,231	609,084	816,315	773,319	1,981,019	2,754,338
1987	589,291	1,949,867	2,539,158	214,452	482,311	696,763	803,743	2,432,178	3,235,921
1988	420,577	272,553	693,130	255,180	631,172	886,352	675,757	903,725	1,579,482
1989	384,004	234,839	618,843	557,171	1,063,042	1,620,213	941,175	1,297,881	2,239,056
1990	434,543	587,818	1,022,361	335,867	1,856,597	2,192,464	770,410	2,444,415	3,214,825
1991	657,511	1,714,835	2,372,346	382,587	751,291	1,133,878	1,040,098	2,466,126	3,506,224
1992	360,681	747,829	1,108,510	405,922	863,651	1,269,573	766,603	1,611,480	2,378,083
1993	364,263	926,863	1,291,126	333,114	1,322,984	1,656,098	697,377	2,249,847	2,947,224
1994	769,464	1,595,256	2,364,720	197,445	508,109	705,554	966,909	2,103,365	3,070,274
1995	366,163	665,425	1,031,588	373,757	1,526,122	1,899,879	739,920	2,191,547	2,931,467
Average									
86-95	491,259	1,006,722	1,497,981	326,273	961,436	1,287,709	817,531	1,968,158	2,785,689
76-85	464,525	941,420	1,405,945	335,162	922,506	1,257,668	799,687	1,863,927	2,663,614
66-75	414,838	396,094	810,933	225,898	424,238	650,136	640,736	820,332	1,461,068

^a Includes 80% of the entire catch from Igvak and Southeast District Mainland.

^b Does not include personal use or other subsistence fish.

Table 31. Black Lake and Black River tributaries peak aerial sockeye salmon survey escapement estimates, 1960-1995.

Year	Black Lake ^a							Black River				Chignik Lake		
	Fan Creek	Milk Creek	Boulevard Creek	Alec River	Conglomerate	Broad Creek	Total	Bearskin Creek	West Fork	Chiaktiak Creek	Total	Clark River	Home Creek	Hatchery Beach
1960	38,500	8,000	40,000	30,000	3,000	30,000	149,500	11,600	23,000	19,000	53,600			
1961	27,000	5,000	28,700	25,000	800	17,000	103,500	2,500	17,100	20,700	40,300			
1962	18,000	7,000	13,000	60,000	200	15,000	113,200	3,000	13,000	24,000	40,000			
1963	39,000	-	36,000	85,000	1,000	61,000	222,000	900	5,000	9,000	14,900			
1964	19,500	3,050	23,850	17,900	9,300	9,500	83,100	500	4,500	7,000	12,000			
1967	20,000	1,000	9,000	156,000	10,000	10,000	206,000	10,000	25,000	31,000	66,000			
1968	32,000	2,400	20,000	60,000	2,000	4,100	120,500	1,200	10,500	10,000	21,700			
1969	103,000	2,100	33,000	50,000	4,000	5,000	197,100	50	800	1,500	2,350			
1970	146,000	9,000	55,500	198,000	5,000	-	413,500	450	4,000	4,000	8,450			
1971	105,000	14,000	85,000	158,000	0	-	362,000	3,500	5,500	47,000	56,000			
1972	18,000	3,500	19,000	74,000	400	-	114,900	1,400	4,300	23,000	28,700			
1973	115,000	4,000	76,000	74,000	5,000	-	274,000	13	4,100	1,500	5,613			
1974	90,000	5,000	50,000	93,000	5,000	-	243,000	450	8,000	7,000	15,450			
1975	40,000	4,500	25,000	87,000	0	-	156,500	65	2,500	2,500	5,065			
1976	78,000	8,900	100,000	119,000	2,000	-	307,900	2,650	23,700	7,700	34,050			
1977	88,000	20,000	127,000	133,000	1,000	-	369,000	200	13,600	6,900	20,700			
1978	114,000	3,300	74,000	83,300	500	-	275,100	410	9,600	8,500	18,510			
1979	37,000	11,800	32,000	105,100	400	26,100	212,400	918	7,610	29,000	37,528			
1980	127,000	16,000	75,000	70,500	1,500	68,000	358,000	3,600	33,000	40,400	77,000			
1981	93,000	4,700	59,000	76,500	20,000	27,000	280,200	950	1,500	18,700	21,150			
1982	50,000	5,500	60,000	43,000	20,000	32,000	210,500	1,066	10,791	5,000	16,857			
1983	-	-	-	-	-	-	-	-	-	6,000	6,000			
1984	50,000	22,200	70,000	30,500	31,000	36,000	239,700	-	-	-	8,200			
1985	28,000	5,500	36,000	65,000	5,500	17,000	157,000	350	450	1,200	2,000			
1986	60,000	15,300	47,000	76,000	39,000	27,000	264,300	-	-	8,300	8,300			
1987	52,000	12,200	133,000	88,400	45,900	32,500	364,000	-	-	1,000	1,000			
1988	54,000	71,000	83,700	106,500	2,300	26,500	344,000	-	-	4,600	4,600			
1989	19,300	21,000	64,000	133,000	1,000	7,500	245,800	-	-	2,100	2,100			
1990	32,600	7,400	35,900	49,800	2,200	18,000	145,900	300	0	50	350			
1991	14,600	19,500	48,000	-	2,000	13,000	97,100	-	-	-	-			
1992 ^b	-	-	-	392,000	-	-	-	-	-	-	-			
1993	40,900	12,600	97,600	8,000	77,000	18,200	254,300	-	-	16,000	16,000			
1994	70,000	25,000	125,000	350,000	20,000	51,000	641,000	5,000	-	31,000	36,000	18,000	9,200	-
1995	23,000	10,000	60,000	200,000	40,000	60,000	393,000	7,100	18,000	31,000	56,100	13,000	6,000	150,000

^a Dashes or blanks represent no surveys taken or survey results not adequate to make stream estimate.^b Survey considered incomplete for all streams except the Alec River.

Table 32. Pink salmon catch, escapement, and run numbers (in thousands of fish) in the Chignik Bay District, 1962-1995.

Year	Catch ^{a,b,c}	Escapement ^d	Run	Year	Catch	Escapement	Run
1962	36.7	30.0	66.7	1979	312.4	1.2	313.6
1963	63.7	20.7	84.4	1980	180.9	3.0	183.9
1964	123.6	20.0	143.6	1981	121.4	1.4	122.8
1965	31.5	11.0	42.5	1982	83.0	2.4	85.4
1966	18.3	71.3	89.6	1983	27.3	1.0	28.3
1967	27.4	5.7	33.1	1984	165.2	123.2	288.4
1968	230.2	81.4	311.6	1985	14.4	0.0	14.4
1969	29.5	11.7	41.2	1986	191.3	0.0	191.3
1970	46.3	43.6	89.9	1987	13.9	0.0	13.9
1971	65.3	5.5	70.8	1988	119.8	22.4	142.2
1972	31.6	5.8	37.4	1989	27.7	13.5	41.2
1973	22.7	2.2	24.9	1990	94.5	6.0	100.5
1974	33.5	4.0	37.5	1991	76.2	12.2	88.4
1975	27.4	1.2	28.6	1992	178.2	55.8	234.0
1976	108.8	12.3	121.1	1993	55.9	2.0	57.9
1977	60.9	3.0	63.9	1994	59.4	75.8	135.2
1978	137.1	10.7	147.8	1995	106.9	180.5	287.4

^d Chignik River escapement may have been incompletely counted because the weir was removed August 24.

Table 33. Pink salmon catch, escapement, and run numbers (in thousands of fish) in the Central District, 1962-1995.

Year	Catch ^{a,b,c}	Escapement	Run	Year	Catch	Escapement	Run
1962	84.3	83.9	168.2	1979	284.4	297.0	581.4
1963	121.3	92.6	213.9	1980	108.7	99.4	208.1
1964	71.9	131.1	203.0	1981	210.0	76.5	286.5
1965	69.5	65.8	135.3	1982	80.6	26.1	106.7
1966	17.4	62.6	80.0	1983	7.9	11.0	18.9
1967	26.0	18.5	44.5	1984	47.3	94.0	141.3
1968	45.4	66.1	111.5	1985	16.1	7.4	23.5
1969	1.4	69.6	71.0	1986	44.1	121.9	166.0
1970	27.9	60.7	88.6	1987	7.8	65.7	73.5
1971	20.5	74.8	95.3	1988	318.4	216.4	534.8
1972	0.8	3.1	3.9	1989	0.0	215.0	215.0
1973	0.3	50.2	50.5	1990	233.7	131.9	365.6
1974	22.1	9.8	31.9	1991	174.0	201.1	375.1
1975	31.3	26.4	57.7	1992	205.7	223.8	429.5
1976	16.6	66.0	82.6	1993	198.5	160.9	359.4
1977	120.0	199.9	319.9	1994	99.1	178.9	278.0
1978	61.2	101.2	162.4	1995	469.7	715.5	1185.2

^a Post 1984 escapement estimates computed by area-under-the-curve methodology using a 15.0 day average stream life (Johnson and Barrett 1988). September 10 was the assumed last day of stream entry.

^b Catches (1970-1995) were updated using historical electronic fish ticket databases.

^c Personal use or other subsistence fish are not included.

Table 34. Pink salmon catch, escapement, and run numbers (in thousands of fish) in the Eastern District, 1962-1995.

Year	Catch ^{a,b,c}	Escapement	Run	Year	Catch	Escapement	Run
1962	1109.9	401.7	1511.6	1979	292.4	194.3	486.7
1963	26.9	126.2	153.1	1980	472.5	425.5	898.0
1964	1251.5	605.7	1857.2	1981	173.3	154.7	328.0
1965	25.7	64.8	90.5	1982	89.1	301.5	390.6
1966	386.2	302.2	688.4	1983	7.8	46.3	54.1
1967	22.6	56.1	78.7	1984	57.7	486.5	544.2
1968	523.4	390.3	913.7	1985	6.6	212.1	218.7
1969	1.7	46.0	47.7	1986	49.6	580.7	630.3
1970	268.9	201.7	470.6	1987	2.1	215.6	217.7
1971	29.0	23.0	52.0	1988	1006.4	1005.4	2011.8
1972	12.9	15.9	28.8	1989	0.0	881.0	881.0
1973	2.5	12.8	15.3	1990	40.6	811.4	852.0
1974	0.6	76.2	76.8	1991	28.0	125.0	153.0
1975	0.0	23.5	23.5	1992	183.1	1318.1	1501.2
1976	28.8	228.8	257.6	1993	59.3	524.7	584.0
1977	0.2	76.0	76.2	1994	13.0	863.3	876.3
1978	86.8	309.3	396.1	1995	8.6	1399.3	1407.9

Table 35. Pink salmon catch, escapement, and run numbers (in thousands of fish) in the Western District, 1962-1995.

Year	Catch ^{a,b,c}	Escapement	Run	Year	Catch	Escapement	Run
1962	81.0	242.0	323.0	1979	744.6	185.0	929.6
1963	516.9	305.0	821.9	1980	216.5	139.5	356.0
1964	112.9	165.0	277.9	1981	433.6	249.3	682.9
1965	345.6	152.0	497.6	1982	602.4	45.9	648.3
1966	173.2	179.3	352.5	1983	164.3	36.0	200.3
1967	27.1	104.4	131.5	1984	173.8	188.0	361.8
1968	295.6	151.3	446.9	1985	80.6	67.5	148.1
1969	485.0	422.0	907.0	1986	200.8	43.8	244.6
1970	442.7	202.0	644.7	1987	187.7	38.3	226.0
1971	285.4	268.8	554.2	1988	1141.4	232.4	1373.8
1972	14.9	8.6	23.5	1989	0.0	57.9	57.9
1973	0.0	62.4	62.4	1990	135.8	44.3	180.1
1974	13.4	77.4	90.8	1991	419.3	96.8	516.1
1975	7.4	141.7	149.1	1992	628.9	38.8	667.7
1976	135.8	114.2	250.0	1993	685.6	45.8	731.4
1977	379.0	355.5	734.5	1994	174.6	111.6	286.2
1978	419.3	333.4	752.7	1995	791.7	554.7	1346.4

^a Post 1984 escapement estimates computed by area-under-the-curve methodology using a 15.0 day average stream life (Johnson and Barrett, 1988). September 10 was assumed to last day of stream entry.

^b Catches (1970-1995) were updated using historical electronic fish ticket databases.

^c Personal use or other subsistence fish not included.

Table 36. Pink salmon catch, escapement, and run numbers (in thousands of fish) in the Perryville District, 1962-1995.

Year	Catch ^{a,b,c}	Escapement	Run	Year	Catch	Escapement	Run
1962	207.4	155.5	362.9	1979	271.4	181.3	452.7
1963	933.6	162.0	1095.6	1980	114.6	74.8	189.4
1964	122.6	72.0	194.6	1981	224.3	116.0	340.3
1965	644.8	82.0	726.8	1982	18.3	13.4	31.7
1966	88.2	90.0	178.2	1983	113.9	64.5	178.4
1967	5.2	155.3	160.5	1984	0.8	109.8	110.6
1968	196.1	128.7	324.8	1985	42.5	235.2	277.7
1969	1262.2	218.6	1480.8	1986	161.3	180.5	341.8
1970	371.4	72.6	444.0	1987	35.3	65.7	101.0
1971	212.1	45.0	257.1	1988	411.2	181.3	592.5
1972	12.0	7.8	19.8	1989	0.0	267.4	267.4
1973	0.0	31.5	31.5	1990	45.4	88.4	133.8
1974	0.0	60.2	60.2	1991	471.9	343.5	815.4
1975	0.0	45.3	45.3	1992	358.2	190.4	548.6
1976	105.2	89.3	194.5	1993	649.1	448.4	1097.5
1977	44.6	115.4	160.0	1994	84.9	153.9	238.8
1978	280.8	157.5	438.3	1995	681.0	582.1	1263.1

Table 37. Total pink salmon catch, escapement, and run numbers (in thousands of fish) in the Chignik Management Area, 1962-1995.

Year	Catch ^{a,b,c}	Escapement	Run	Year	Catch	Escapement	Run
1962	1519.3	913.1	2432.4	1979	1905.2	858.8	2764
1963	1662.4	706.5	2368.9	1980	1093.2	742.2	1835.4
1964	1682.5	993.8	2676.3	1981	1162.6	597.9	1760.5
1965	1117.1	375.6	1492.7	1982	873.4	389.3	1262.7
1966	683.3	705.4	1388.7	1983	321.2	158.8	480.0
1967	108.3	340.0	448.3	1984	444.8	1001.5	1446.3
1968	1290.7	817.8	2108.5	1985	160.1	522.2	682.3
1969	1779.8	767.9	2547.7	1986	647.1	926.9	1574.0
1970	1157.2	580.6	1737.8	1987	246.8	385.3	632.1
1971	612.3	417.1	1029.4	1988	2997.2	1657.9	4655.1
1972	72.2	41.2	113.4	1989	27.7	1434.8	1462.5
1973	25.5	159.1	184.6	1990	550.0	1082.0	1632.0
1974	69.6	227.6	297.2	1991	1169.2	778.6	1947.8
1975	66.2	238.1	304.3	1992	1554.1	1826.9	3381.0
1976	395.3	510.6	905.9	1993	1648.4	1181.8	2830.2
1977	604.8	749.8	1354.6	1994	431.1	1383.5	1814.6
1978	985.1	912.1	1897.3	1995	2058.0	3432.0	5490.0

^a Post 1984 escapement estimates computed by area-under-the-curve methodology using a 15.0 day average stream life (Johnson and Barrett, 1988). September 10 was the assumed last day of stream entry.

^b Catches (1970-1995) were updated using historical electronic fish ticket databases.

^c Does not include personal use or other subsistence fish.

Table 38. Chum salmon catch, escapement, and run numbers (in thousands of fish) in the Chignik Bay District, 1962-1995.

Year	Catch ^{a,b,c}	Escapement	Run	Year	Catch	Escapement	Run
1962	5.2	6.7	11.9	1979	32.2	1.6	33.8
1963	5.3	0.8	6.1	1980	19.9	0.3	20.2
1964	8.5	2.5	11.0	1981	38.1	0.5	38.6
1965	1.2	3.0	4.2	1982	16.0	1.4	17.4
1966	6.6	4.5	11.1	1983	16.7	0.1	16.8
1967	5.9	4.0	9.9	1984	8.2	0.3	8.5
1968	5.4	1.0	6.4	1985	4.9	0.0	4.9
1969	2.9	1.5	4.4	1986	18.2	0.0	18.2
1970	1.7	21.0	22.7	1987	5.2	0.1	5.3
1971	19.4	7.1	26.5	1988	7.0	15.3	22.3
1972	18.2	3.3	21.5	1989	1.6	4.2	5.8
1973	7.3	0.7	8.0	1990	11.5	1.5	13.0
1974	17.3	2.1	19.4	1991	17.5	0.0	17.5
1975	21.2	2.1	23.3	1992	12.7	0.1	12.8
1976	19.2	2.4	21.6	1993	8.1	0.3	8.4
1977	8.6	2.0	10.6	1994	25.3	1.5	26.8
1978	15.0	2.1	17.1	1995	14.6	10.3	24.9

Table 39. Chum salmon catch, escapement, and run numbers (in thousands of fish) in the Central District, 1962-1995.^{a,b,c}

Year	Catch ^{a,b,c}	Escapement	Run	Year	Catch	Escapement	Run
1962	132.0	40.4	172.4	1979	11.4	44.8	56.2
1963	23.1	34.0	57.1	1980	38.9	34.2	73.1
1964	50.3	24.2	74.5	1981	160.7	26.1	186.8
1965	37.8	19.2	57.0	1982	33.7	49.4	83.1
1966	20.9	10.0	30.9	1983	9.8	17.0	26.8
1967	9.9	17.2	27.1	1984	8.2	35.4	43.6
1968	4.2	14.5	18.7	1985	5.2	9.6	14.8
1969	3.2	6.5	9.7	1986	29.5	31.0	60.5
1970	28.6	23.4	52.0	1987	9.4	17.5	26.9
1971	13.7	29.1	42.9	1988	39.3	55.8	95.1
1972	1.6	14.2	15.8	1989	0.0	34.7	34.7
1973	0.2	12.2	14.4	1990	113.7	28.0	141.7
1974	13.5	18.1	31.6	1991	51.4	18.0	69.4
1975	3.2	18.8	22.0	1992	45.5	173.1	218.6
1976	3.4	17.8	21.2	1993	43.0	39.4	82.4
1977	8.9	9.3	18.2	1994	69.6	102.6	172.2
1978	10.3	13.8	24.1	1995	107.1	44.5	151.6

^a Post 1984 escapement estimates computed by area-under-the-curve methodology using a 15.0 day average stream life (Johnson and Barrett, 1988). September 10 was assumed to be the last day for stream entry.

^b Catches (1970-1995) were updated using historical electronic fish ticket databases.

^c Personal use or other subsistence fish not included.

Table 40. Chum salmon catch, escapement, and run numbers (in thousands of fish) in the Eastern District, 1962-1995.^{a,b,c}

Year	Catch ^{a,b,c}	Escapement	Run	Year	Catch	Escapement	Run
1962	74.7	79.6	154.3	1979	36.1	79.5	115.6
1963	20.5	55.2	75.7	1980	56.8	107.0	163.8
1964	242.7	165.4	408.1	1981	108.7	126.0	234.7
1965	32.4	58.0	90.4	1982	64.5	145.4	209.9
1966	130.1	58.0	188.1	1983	8.3	50.2	58.5
1967	24.4	89.8	114.2	1984	21.1	214.7	235.8
1968	110.1	63.0	173.1	1985	0.9	4.9	5.8
1969	3.7	66.5	70.2	1986	17.9	8.5	26.4
1970	241.1	126.0	367.1	1987	8.9	38.3	47.2
1971	102.3	219.2	321.5	1988	77.5	221.9	299.4
1972	27.7	107.4	135.1	1989	0.0	74.3	74.3
1973	1.2	59.1	60.3	1990	27.5	139.7	167.2
1974	0.3	76.3	76.5	1991	4.9	70.4	75.3
1975	0.0	41.3	41.3	1992	61.2	306.9	368.1
1976	10.0	122.3	132.3	1993	21.4	135.2	156.6
1977	1.5	54.5	56.0	1994	4.3	129.2	133.5
1978	17.5	55.8	73.3	1995	8.0	112.8	120.8

Table 41. Chum salmon catch, escapement, and run numbers (in thousands of fish) in the Western District, 1962-1995.^{a,b,c}

Year	Catch ^{a,b,c}	Escapement	Run	Year	Catch	Escapement	Run
1962	134.4	83.1	217.5	1979	82.3	42.5	124.8
1963	44.7	10.0	54.7	1980	91.9	56.5	148.4
1964	21.2	37.0	58.2	1981	221.6	70.3	291.9
1965	36.4	25.0	61.4	1982	253.3	35.4	288.7
1966	73.8	12.0	85.8	1983	102.0	20.1	122.1
1967	33.6	24.0	57.6	1984	25.4	73.8	99.2
1968	90.1	9.6	99.7	1985	10.7	34.6	45.3
1969	36.8	27.6	64.4	1986	74.1	5.3	79.4
1970	139.6	49.7	189.3	1987	86.9	19.7	106.6
1971	177.5	184.1	361.6	1988	102.7	27.4	130.1
1972	18.5	59.0	77.5	1989	0.0	7.4	7.4
1973	0.0	35.6	35.6	1990	91.6	28.8	120.4
1974	3.2	39.4	42.6	1991	98.6	38.1	136.7
1975	0.8	43.4	44.2	1992	65.5	53.3	118.8
1976	33.1	55.0	88.1	1993	25.0	14.0	39.0
1977	88.0	70.4	158.4	1994	94.1	23.0	117.1
1978	46.0	27.3	73.3	1995	158.3	45.7	204.0

^a Post 1984 escapement estimates computed by area-under-the-curve methodology using a 15.0 day average stream life (Johnson and Barrett, 1988). September 10 was the assumed last day of stream entry.

^b Catches (1970-1995) were updated using historical electronic fish ticket databases.

^c Does not include personal use or other subsistence fish.

Table 42. Chum salmon catch, escapement, and run numbers (in thousands of fish) in the Perryville District, 1962-1995.

Year	Catch ^{a,b,c}	Escapement	Run	Year	Catch	Escapement	Run
1962	17.9	10.5	28.4	1979	26.9	12.8	39.7
1963	19.1	7.0	26.1	1980	45.0	29.1	74.1
1964	10.6	26.0	36.6	1981	51.3	19.3	70.6
1965	12.8	7.0	19.8	1982	22.6	23.6	46.2
1966	7.9	20.4	28.3	1983	22.6	8.2	30.8
1967	1.7	5.7	7.4	1984	0.5	46.0	46.5
1968	14.0	1.8	15.8	1985	1.1	12.9	14.0
1969	21.1	1.0	22.1	1986	37.0	7.7	44.7
1970	26.3	13.0	39.3	1987	16.9	9.8	26.7
1971	40.9	30.0	70.9	1988	41.2	41.4	82.6
1972	12.3	11.5	23.8	1989	0.0	15.9	15.9
1973	0.0	9.3	9.3	1990	25.7	55.8	81.5
1974	0.0	12.5	12.5	1991	88.6	343.2	431.8
1975	0.0	20.5	20.5	1992	37.2	40.3	77.5
1976	15.7	8.9	24.6	1993	24.7	66.8	91.5
1977	3.4	15.4	18.8	1994	34.0	126.0	160.0
1978	32.1	5.3	37.4	1995	93.0	134.6	227.6

Table 43. Total chum salmon catch, escapement, and run numbers (in thousands of fish) in the Chignik Management Area, 1962-1995.

Year	Catch ^{a,b,c}	Escapement	Run	Year	Catch	Escapement	Run
1962	364.2	220.3	584.5	1979	188.9	181.2	370.1
1963	112.7	107.0	219.7	1980	252.5	227.1	479.6
1964	333.3	255.1	588.4	1981	580.4	242.2	822.6
1965	120.6	112.2	232.8	1982	390.1	255.2	645.3
1966	239.3	104.9	344.2	1983	159.4	95.6	255.0
1967	75.5	140.7	216.2	1984	63.4	370.2	433.6
1968	223.8	89.9	313.7	1985	22.8	62.0	84.8
1969	67.7	103.1	170.8	1986	176.7	52.5	229.2
1970	437.3	233.1	670.4	1987	127.3	85.4	212.7
1971	353.8	469.5	823.3	1988	267.7	361.8	629.5
1972	78.3	195.4	273.7	1989	1.6	136.5	138.1
1973	8.7	116.9	125.6	1990	270.0	253.8	523.8
1974	34.3	148.4	182.7	1991	261.0	469.7	730.7
1975	25.2	126.1	151.3	1992	222.1	573.7	795.8
1976	81.4	206.4	287.8	1993	122.4	255.7	378.1
1977	110.4	151.6	262.0	1994	227.3	382.4	609.7
1978	120.9	104.3	225.2	1995	380.9	347.8	728.7

^a Post 1984 escapement estimates computed by area-under-the-curve methodology using a 15.0 day average stream life (Johnson and Barrett, 1988). September 10 was assumed to be last day for stream entry.

^b Catches (1970-1995) were updated using historical electronic fish ticket databases.

^c Personal use or other subsistence fish are not included.

Table 44. Pink salmon return per spawner in the Central and Eastern Districts, 1962-1995.

Even Year Cycle ^{a,b,c}				Odd Year Cycle ^{a,b,c}			
Brood Year	Pink Escapement	Return 2-ys Later	Return/ Spawner	Brood Year	Pink Escapement	Return 2-ys Later	Return/ Spawner
1962	485,600	2,060,200	4.2	1963	218,800	225,800	1.0
1964	736,800	768,400	1.0	1965	130,600	123,200	0.9
1966	364,800	1,025,200	2.8	1967	74,600	118,700	1.6
1968	456,400	559,800	1.2	1969	115,600	147,300	1.3
1970	262,400	32,700	0.1	1971	97,800	65,800	0.7
1972	19,000	108,700	5.7	1973	63,000	81,200	1.3
1974	86,000	340,200	4.0	1975	49,900	396,100	7.9
1976	294,800	558,500	1.9	1977	275,900	1,068,100	3.8
1978	410,500	1,106,100	2.7	1979	491,300	614,500	1.3
1980	524,900	497,300	0.9	1981	231,200	73,000	0.3
1982	327,600	685,500	2.1	1983	57,300	242,200	4.2
1984	580,500	796,300	1.4	1985	219,500	291,200	1.3
1986	702,600	2,546,600	3.6	1987	281,300	1,096,000	3.9
1988	1,221,800	1,217,600	1.0	1989	1,096,000	528,100	0.5
1990	943,300	1,930,700	2.0	1991	326,100	943,400	2.9
1992	1,541,900	1,153,400	0.8	1993	685,600	2,593,100	3.8
1994	1,042,200			1995	2,114,800		

Table 45. Pink salmon return per spawner in the Western and Perryville Districts, 1962-1995.^{a,b,c}

Even Year Cycle ^{a,b,c}				Odd Year Cycle ^{a,b,c}			
Brood Year	Pink Escapement	Return 2-ys Later	Return/ Spawner	Brood Year	Pink Escapement	Return 2-ys Later	Return/ Spawner
1962	397,500	472,500	1.2	1963	467,000	1,225,400	2.6
1964	237,000	530,700	2.2	1965	234,600	292,000	1.2
1966	269,300	771,700	2.9	1967	259,700	2,387,800	9.2
1968	280,000	1,088,700	3.9	1969	640,600	811,300	1.3
1970	274,600	43,300	0.2	1971	313,800	93,900	0.3
1972	16,400	151,000	9.2	1973	93,900	194,400	2.1
1974	137,600	444,500	3.2	1975	187,000	894,500	4.8
1976	203,500	1,191,000	5.9	1977	470,900	1,382,300	2.9
1978	490,900	545,400	1.1	1979	366,300	1,023,200	2.8
1980	214,300	680,000	3.2	1981	365,300	378,700	1.0
1982	59,300	472,400	8.0	1983	100,500	425,800	4.2
1984	297,800	586,400	2.0	1985	302,700	327,000	1.1
1986	224,300	1,966,300	8.8	1987	104,000	325,300	3.1
1988	413,700	313,900	0.8	1989	325,300	1,331,500	4.1
1990	132,700	1,216,300	9.2	1991	440,300	1,828,800	4.2
1992	229,200	524,900	2.3	1993	494,200	2,609,500	5.3
1994	265,500			1995	1,136,700		

^a Post 1984 escapement estimates computed by area-under-the-curve methodology using a 15.0 day average stream life (Johnson and Barrett, 1988). September 10 was assumed to be last day for stream entry.

^b Catches (1970-1995) were updated using historical electronic fish ticket databases.

^c Personal use or other subsistence fish are not included.

Table 46. Chum salmon return per spawner in the Central and Eastern Districts, 1962-1995.

Brood ^{a,b,c} Year	Chum Escapement	Return 4-yrs Later	Return/ Spawner	Brood ^{a,b,c} Year	Chum Escapement	Return 4-yrs Later	Return/ Spawner
1962	120,000	219,000	1.8	1979	124,300	85,300	0.7
1963	89,200	141,300	1.6	1980	141,200	279,400	2.0
1964	189,600	191,800	1.0	1981	152,100	20,600	0.1
1965	77,200	79,900	1.0	1982	194,800	86,900	0.4
1966	68,000	149,400	2.2	1983	67,200	74,100	1.1
1967	107,000	364,400	3.4	1984	250,100	194,500	0.8
1968	77,500	150,900	2.0	1985	14,500	109,000	7.5
1969	73,000	72,700	1.0	1986	39,500	308,900	7.8
1970	149,400	108,700	0.7	1987	55,800	144,700	2.6
1971	248,300	63,300	0.3	1988	277,700	586,700	2.1
1972	121,600	153,500	1.3	1989	109,000	239,000	2.2
1973	71,300	74,200	1.0	1990	167,700	305,700	1.8
1974	94,400	97,400	1.0	1991	88,400	272,400	3.1
1975	60,100	171,800	2.9	1992	480,000		
1976	140,100	236,900	1.7	1993	174,600		
1977	63,800	421,500	6.6	1994	231,800		
1978	69,600	293,000	4.2	1995	157,200		

Table 47. Chum salmon return per spawner in the Western and Perryville Districts, 1962-1995.

Even Year Cycle				Odd Year Cycle			
Brood ^{a,b,c} Year	Chum Escapement	Return 4-yrs Later	Return/ Spawner	Brood ^{a,b,c} Year	Chum Escapement	Return 4-yrs Later	Return/ Spawner
1962	93,600	114,100	1.2	1979	55,300	152,900	2.8
1963	17,000	65,000	3.8	1980	85,600	145,700	1.7
1964	63,000	115,500	1.8	1981	89,600	59,300	0.7
1965	32,000	86,500	2.7	1982	59,000	124,100	2.1
1966	32,400	228,600	7.1	1983	28,300	133,300	4.7
1967	29,700	432,500	14.6	1984	119,800	212,700	1.8
1968	11,400	101,300	8.9	1985	47,500	23,300	0.5
1969	28,600	44,900	1.6	1986	13,000	201,900	15.5
1970	62,700	55,100	0.9	1987	29,500	568,500	19.3
1971	214,100	64,700	0.3	1988	68,800	196,300	2.9
1972	70,500	112,700	1.6	1989	23,300	130,600	5.6
1973	44,900	177,200	3.9	1990	84,600	277,100	3.3
1974	51,900	110,700	2.1	1991	381,300	431,500	1.1
1975	63,900	164,500	2.6	1992	93,600		
1976	63,900	222,500	3.5	1993	80,800		
1977	85,800	362,500	4.2	1994	149,000		
1978	32,600	334,900	10.3	1995	180,300		

^a Post 1984 escapement estimates computed by area-under-the-curve methodology using a 15.0 day average stream life (Johnson and Barrett, 1988). September 10 was assumed to be last day for stream entry.

^b Catches (1970-1995) were updated using historical electronic fish ticket databases.

^c Personal use or other subsistence fish are not included.

Table 48. Sockeye, coho, pink, and chum salmon aerial stream survey counts in the Chignik management Area, 1995.

Stream	Date	Observer	Location	Visi- bility	Species					Observer Remarks
					Chinook	Sockeye	Coho	Pink	Chum	
Boulevard Creek, 271-083	08/26/1995	David Owen	Stream	G		60,000				
			Mouth	G						
			Bay	G						
Black Lake, 271-084	07/28/1995	David Owen	Stream	P		50,000	0	0	0	
			Mouth	P		0	0	0	0	
			Bay	P		0	0	0	0	
Alec River, 271-085	07/28/1995	David Owen	Stream	P		200,000	0	0	0	
			Mouth	P		0	0	0	0	
			Bay	P		0	0	0	0	
	08/26/1995	David Owen	Stream	G		100,000	0	0	0	
			Mouth	G		0	0	0	0	
			Bay	G		0	0	0	0	
Spring Creek, 271-086	08/26/1995	David Owen	Stream	G		2,000	0	0	0	
			Mouth	G		0	0	0	0	
			Bay	G		0	0	0	0	
Broad Creek, 271-087	08/26/1995	David Owen	Stream	G		60,000	0	0	0	
			Mouth	G		0	0	0	0	
			Bay	G		0	0	0	0	
Conglomerate Creek, 271-088	08/26/1995	David Owen	Stream	G		40,000	0	0	0	
			Mouth	G		0	0	0	0	
			Bay	G		0	0	0	0	
Cathedral Creek, 271-089	08/26/1995	David Owen	Stream	G		0	0	0	0	
			Mouth	G		0	0	0	0	
			Bay	G		0	0	0	0	

-Continued-

Table 48. (page 2 of 41)

Stream	Date	Observer	Location	Visi- bility	Species				Observer Remarks
					Chinook	Sockeye	Coho	Pink	
Milk Creek, 271-090	08/26/1995	David Owen	Stream	G		10,000	0	0	0
			Mouth	G		0	0	0	0
			Bay	G		0	0	0	0
Fan Creek, 271-091	08/26/1995	David Owen	Stream	G		23,000	0	0	0
			Mouth	G		0	0	0	0
			Bay	G		0	0	0	0
Chiaktiak Creek, 271-092	08/26/1995	David Owen	Stream	G		31,000	0	0	0
			Mouth	G		0	0	0	0
			Bay	G		0	0	0	0
Cucumber Creek, 271-093	08/12/1995	David Owen	Stream	E		0	0	0	0
			Mouth	E		600	0	0	0
			Bay	E		0	0	0	0
	08/21/1995	David Owen	Stream	G		0	0	0	0
			Mouth	G		50,000	0	0	0
			Bay	G		0	0	0	0
	08/26/1995	David Owen	Stream	G		4,000	0	0	0
			Mouth	G		10,000	0	0	0
			Bay	G		0	0	0	0
West Fork River, 271-094	08/12/1995	David Owen	Stream	E		18,000	0	0	0
			Mouth	E		0	0	0	0
			Bay	E		0	0	0	0
Bearskin Creek, 271-095	07/28/1995	David Owen	Stream	P		7,100	0	0	0
			Mouth	P		0	0	0	0
			Bay	P		0	0	0	0
	08/12/1995	David Owen	Stream	E		1,200	0	0	0
			Mouth	E		0	0	0	0
			Bay	E		0	0	0	0

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Table 48. (page 3 of 41)

Stream	Date	Observer	Location	Visi- bility	Species					Observer Remarks
					Chinook	Sockeye	Coho	Pink	Chum	
Hatchery Beach, 271-096										
	08/12/1995		Stream	E		0	0	0	0	
		David Owen	Mouth	E		0	0	0	0	
			Bay	E		0	0	0	0	
	08/21/1995		Stream	G		0	0	0	0	
		David Owen	Mouth	G		150,000	0	0	0	
			Bay	G		0	0	0	0	
Clark River, 271-097										
	08/12/1995		Stream	E		500	0	0	0	
		David Owen	Mouth	E		15,000	0	0	0	
			Bay	E		0	0	0	0	
	08/21/1995		Stream	G		10,000	0	0	0	
		David Owen	Mouth	G		60,000	0	0	0	
			Bay	G		0	0	0	0	
	08/26/1995		Stream	G		13,000	0	0	0	
		David Owen	Mouth	G		50,000	0	0	0	
			Bay	G		0	0	0	0	
Home Creek, 271-099										
	08/12/1995		Stream	E		500	0	2,000	0	
		David Owen	Mouth	E		0	0	0	0	
			Bay	E		0	0	0	0	
	08/21/1995		Stream	G		5,000	0	0	0	
		David Owen	Mouth	G		0	0	0	0	
			Bay	G		0	0	0	0	
	08/26/1995		Stream	G		6,000	0	0	0	
		David Owen	Mouth	G		0	0	0	0	
			Bay	G		0	0	0	0	
Lake Bay Creek, 271-101B										
	08/06/1995		Stream	E		0	0	0	0	
		David Owen	Mouth	E		0	0	0	0	
			Bay	E		0	0	15,000	15,000	

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Table 48. (page 4 of 41)

Stream	Date	Observer	Location	Visi- bility	Species					Observer Remarks
					Chinook	Sockeye	Coho	Pink	Chum	
	08/12/1995	David Owen	Stream	E		0	0	3,000	0	
	Mouth		E		0	0	60,000	10,000		
	Bay		E		0	0	0	0		
	08/27/1995	David Owen	Stream	G		0	0	20,000	0	
	Mouth		G		0	0	60,000	10,000		
	Bay		G		0	0	80,000	0		
Mallard Duck Creek, 271-102										
	08/06/1995	David Owen	Stream	E		0	0	0	0	
	Mouth		E		0	0	0	0		
	Bay		E		0	0	0	0		
	08/06/1995	David Owen	Stream	E		0	0	0	0	
	Mouth		E		0	0	0	0		
	Bay		E		0	0	0	0		
	08/12/1995	David Owen	Stream	E		0	0	0	0	
	Mouth		E		0	0	0	0		
	Bay		E		0	0	2,000	0		
	08/27/1995	David Owen	Stream	E		0	0	1,000	0	
	Mouth		E		0	0	0	0		
	Bay		E		0	0	0	0		
Marshiniak Creek, 271-102A										
	08/12/1995	David Owen	Stream	E		0	0	0	0	
	Mouth		E		0	0	0	0		
	Bay		E		0	0	0	0		
Mud Bay, 271-102C										
	08/06/1995	David Owen	Stream	P		200	0	0	0	
	Mouth		P		0	0	0	0		
	Bay		P		0	0	0	0		
Metrofania Creek, 271-103										
	07/13/1995	David Owen	Stream	F		0	0	0	0	
	Mouth		F		0	0	0	0		
	Bay		F		0	0	0	0		
	07/24/1995	David Owen	Stream	G		0	0	200	0	
	Mouth		G		0	0	0	0		
	Bay		G		0	0	0	0		

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Table 48. (page 5 of 41)

Stream	Date	Observer	Location	Visi- bility	Species					Observer Remarks
					Chinook	Sockeye	Coho	Pink	Chum	
Alfred Creek, 271-104	07/28/1995	David Owen	Stream	P		0	0	0	125	
	Mouth		P		0	0	0	0		
	Bay		P		0	0	0	0		
	08/08/1995	David Owen	Stream	P		0	0	1,500	0	
	Mouth		P		0	0	0	0		
	Bay		P		0	0	0	0		
	08/12/1995	David Owen	Stream	E		0	0	1,000	0	
	Mouth		E		0	0	0	0		
	Bay		E		0	0	0	0		
	08/21/1995	David Owen	Stream	G		0	0	2,000	0	
	Mouth		G		0	0	0	0		
	Bay		G		0	0	0	0		
	08/27/1995	David Owen	Stream	G		0	0	5,000	0	
	Mouth		G		0	0	0	0		
	Bay		G		0	0	0	0		
	08/06/1995	David Owen	Stream	E		0	0	2,000	200	
	Mouth		E		0	0	0	0		
	Bay		E		0	0	0	0		
	08/27/1995	David Owen	Stream	G		0	0	2,000	0	
	Mouth		G		0	0	0	0		
	Bay		G		0	0	0	0		
	08/06/1995	David Owen	Stream	E		0	0	500	0	
	Mouth		E		0	0	200	0		
	Bay		E		0	0	0	0		
08/27/1995	David Owen	Stream	G		0	0	3,000	0		
Mouth		G		0	0	0	0			
Bay		G		0	0	0	0			
08/06/1995	David Owen	Stream	E		0	0	0	0		
Mouth		E		0	0	0	0			
Bay		E		0	0	0	0			

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Table 48. (page 6 of 41)

Stream	Date	Observer	Location	Visi- bility	Species					Observer Remarks	
					Chinook	Sockeye	Coho	Pink	Chum		
88	08/27/1995	David Owen	Stream	G		0	0	3,000	0		
	Mouth		G		0	0	0	0			
	Bay		G		0	0	0	0			
	Jack Creek, 272-100										
	08/06/1995	David Owen	Stream	P		0	0	200	0		
	Mouth		P		0	0	500	500			
	Bay		P		0	0	0	0			
	08/12/1995	David Owen	Stream	E		0	0	500	0		
	Mouth		E		0	0	5,000	0			
	Bay		E		0	0	2,000	0			
	08/27/1995	David Owen	Stream	G		0	0	10,000	0		
	Mouth		G		0	0	10,000	0			
	Bay		G		0	0	0	0			
	Chignik Bay, 272-201										
	08/06/1995	David Owen	Stream	E		0	0	0	0		
	Mouth		E		0	0	0	0			
	Bay		E		0	0	0	0			
	Chignik Bay, 272-202A										
	08/06/1995	David Owen	Stream	E		0	0	200	0		
	Mouth		E		0	0	0	0			
	Bay		E		0	0	0	0			
	08/28/1995	David Owen	Stream	G		0	0	4,000	0		
	Mouth		G		0	0	0	0			
	Bay		G		0	0	0	0			
	Neketa Creek, 272-202B										
	08/28/1995	David Owen	Stream	G		0	0	8,000	0		
	Mouth		G		0	0	1,000	0			
	Bay		G		0	0	0	0			
	Thompson Creek, 272-204										
	08/06/1995	David Owen	Stream	E		0	0	200	0		
	Mouth		E		0	0	0	0			
	Bay		E		0	0	0	0			

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Table 48. (page 7 of 41)

Stream	Date	Observer	Location	Visi- bility	Species					Observer Remarks
					Chinook	Sockeye	Coho	Pink	Chum	
Mckinsey Creek, 272-205	08/28/1995	David Owen	Stream	G		0	0	7,000	0	
	Mouth		G		0	0	0	0		
	Bay		G		0	0	0	0		
	08/06/1995	David Owen	Stream	E		0	0	4,500	0	
	Mouth		E		0	0	0	0		
	Bay		E		0	0	0	0		
	08/28/1995	David Owen	Stream	G		0	0	39,000	0	
	Mouth		G		0	0	0	0		
	Bay		G		0	0	0	0		
Dry Creek, 272-206	07/13/1995	David Owen	Stream	F		0	0	0	0	
	Mouth		F		0	0	0	0		
	Bay		F		0	0	0	0		
	07/16/1995	Larry Nicholson	Stream			0	0	0	0	
	Mouth				0	0	0	0		
	Bay				0	0	0	0		
	08/06/1995	David Owen	Stream	E		0	0	750	200	
	Mouth		E		0	0	0	0		
	Bay		E		0	0	0	0		
08/28/1995	David Owen	Stream	G		0	0	17,000	0		
Mouth		G		0	0	0	0			
Bay		G		0	0	0	0			
Hook Creek, 272-302	07/13/1995	David Owen	Stream	F		0	0	0	0	
	Mouth		F		0	0	0	0		
	Bay		F		0	0	0	0		
	07/16/1995	Larry Nicholson	Stream			0	0	0	0	
	Mouth				0	0	0	0		
	Bay				0	0	0	100		
	07/21/1995	Larry Nicholson	Stream			0	0	0	100	
	Mouth				0	0	0	0		
	Bay				0	0	0	0		

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Table 48. (page 8 of 41)

Stream	Date	Observer	Location	Visi- bility	Species					Observer Remarks
					Chinook	Sockeye	Coho	Pink	Chum	
Kumlium Creek, 272-501	07/27/1995	David Owen	Stream	E		0	0	500	0	
	Mouth		E		0	0	200	0		
	Bay		E		0	0	0	0		
	08/06/1995	David Owen	Stream	E		0	0	7,000	500	
	Mouth		E		0	0	0	0		
	Bay		E		0	0	0	0		
	08/28/1995	David Owen	Stream	G		0	0	46,000	0	
	Mouth		G		0	0	0	0		
	Bay		G		0	0	0	0		
	07/16/1995	Larry Nicholson	Stream			0	0	1,500	0	
	Mouth					0	0	0	0	
	Bay				0	0	200	0		
	07/21/1995	Larry Nicholson	Stream			0	0	1,500	0	
	Mouth				0	0	0	0		
	Bay				0	0	200	0		
	07/27/1995	David Owen	Stream	E		0	0	100,000	0	
	Mouth		E		0	0	20,000	0		
	Bay		E		0	0	0	0		
	08/05/1995	David Owen	Stream	E		0	0	114,000	0	
	Mouth		E		0	0	50,000	0		
	Bay		E		0	0	0	0		
	08/28/1995	David Owen	Stream	G		0	0	66,000	0	
	Mouth		G		0	0	0	0		
	Bay		G		0	0	0	0		
	07/27/1995	David Owen	Stream	E		0	0	100	0	
	Mouth		E		0	0	0	20		
	Bay		E		0	0	0	0		
	08/05/1995	David Owen	Stream	E		0	0	500	0	
	Mouth		E		0	0	2,000	0		
	Bay		E		0	0	0	0		

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Table 48. (page 9 of 41)

Stream	Date	Observer	Location	Visi- bility	Species					Observer Remarks
					Chinook	Sockeye	Coho	Pink	Chum	
, 272-502A										
	07/27/1995		Stream	E		0	0	0	0	
		David Owen	Mouth	E		0	0	0	0	
			Bay	E		0	0	0	0	
, 272-503										
	08/05/1995		Stream	E		0	0	200	0	
		David Owen	Mouth	E		0	0	100	0	
			Bay	E		0	0	0	0	
	08/28/1995		Stream	G		0	0	5,000	0	
		David Owen	Mouth	G		0	0	0	0	
			Bay	G		0	0	0	0	
Kujulik Bay, 272-504										
	07/13/1995		Stream	F		0	0	0	0	
		David Owen	Mouth	F		0	0	0	0	
			Bay	F		0	0	0	0	
	07/23/1995		Stream			0	0	0	200	
		Larry Nicholson	Mouth			0	0	0	0	
			Bay			0	0	0	0	
	07/27/1995		Stream	E		0	0	0	0	
		David Owen	Mouth	E		0	0	0	0	
			Bay	E		0	0	0	0	
	08/05/1995		Stream	E		0	0	0	0	
		David Owen	Mouth	E		0	0	0	0	
			Bay	E		0	0	0	0	
	08/28/1995		Stream	G		0	0	2,000	0	
		David Owen	Mouth	G		0	0	0	0	
			Bay	G		0	0	0	0	
Bear Creek, 272-505										
	07/13/1995		Stream	F		0	0	0	0	1 JUMPER
		David Owen	Mouth	F		0	0	0	1	
			Bay	F		0	0	0	0	

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Table 48. (page 10 of 41)

Stream	Date	Observer	Location	Visi- bility	Species					Observer Remarks
					Chinook	Sockeye	Coho	Pink	Chum	
	07/27/1995	David Owen	Stream	E		0	0	0	10,000	
			Mouth	E		0	0	0	0	
			Bay	E		0	0	0	0	
	08/06/1995	David Owen	Stream	E		0	0	0	2,000	
			Mouth	E		0	0	0	200	
			Bay	E		0	0	0	0	
	08/28/1995	David Owen	Stream	P		0	0	6,000	0	
			Mouth	P		0	0	0	0	
			Bay	P		0	0	0	0	
Packer's Creek, 272-506	07/15/1995	Larry Nicholson	Stream			0	0	0	0	
			Mouth			0	0	0	2,000	
			Bay			0	0	0	0	
	07/27/1995	David Owen	Stream	E		0	0	0	750	
			Mouth	E		0	0	0	0	
			Bay	E		0	0	0	0	
	08/06/1995	David Owen	Stream	E		0	0	0	500	
			Mouth	E		0	0	0	0	
			Bay	E		0	0	0	0	
	08/28/1995	David Owen	Stream	P		0	0	3,000	0	
			Mouth	P		0	0	0	0	
			Bay	P		0	0	0	0	
Kujulik Bay, 272-507	07/13/1995	David Owen	Stream	F		0	0	0	0	
			Mouth	F		0	0	0	0	
			Bay	F		0	0	0	0	
	07/15/1995	Larry Nicholson	Stream			0	0	0	0	
			Mouth			0	0	0	0	
			Bay			0	0	0	0	
	07/23/1995	Larry Nicholson	Stream			0	0	0	50	
			Mouth			0	0	0	0	
			Bay			0	0	0	0	

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Table 48. (page 11 of 41)

Stream	Date	Observer	Location	Visi- bility	Species					Observer Remarks
					Chinook	Sockeye	Coho	Pink	Chum	
	07/27/1995		Stream	E		0	0	0	8,000	
		David Owen	Mouth	E		0	0	0	0	
			Bay	E		0	0	0	0	
	08/06/1995		Stream	E		0	0	0	1,000	
		David Owen	Mouth	E		0	0	0	1,000	
			Bay	E		0	0	0	0	
	08/28/1995		Stream	G		0	0	5,000	0	
		David Owen	Mouth	G		0	0	0	0	
			Bay	G		0	0	0	0	
Kujulik Bay, 272-508										
	07/13/1995		Stream	F		0	0	0	0	
		David Owen	Mouth	F		0	0	0	0	
			Bay	F		0	0	0	0	
	07/15/1995		Stream			0	0	0	0	
		Larry Nicholson	Mouth			0	0	0	0	
			Bay			0	0	0	0	
	07/23/1995		Stream			0	0	0	150	
		Larry Nicholson	Mouth			0	0	0	0	
			Bay			0	0	0	0	
	07/27/1995		Stream	E		0	0	0	4,000	
		David Owen	Mouth	E		0	0	0	5,000	
			Bay	E		0	0	0	0	
	08/05/1995		Stream	E		0	0	0	100	
		David Owen	Mouth	E		0	0	0	500	
			Bay	E		0	0	0	0	
	08/06/1995		Stream	E		0	0	0	2,000	
		David Owen	Mouth	E		0	0	0	0	
			Bay	E		0	0	0	0	
	08/28/1995		Stream	G		0	0	11,000	0	
		David Owen	Mouth	G		0	0	0	0	
			Bay	G		0	0	0	0	

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Table 48. (page 12 of 41)

Stream	Date	Observer	Location	Visi- bility	Species					Observer Remarks
					Chinook	Sockeye	Coho	Pink	Chum	
Rudy's Creek, 272-509										
	07/15/1995		Stream			0	0	0	0	
		Larry Nicholson	Mouth			0	0	0	3,000	
			Bay			0	0	0	0	
	07/21/1995		Stream			0	0	0	300	
		Larry Nicholson	Mouth			0	0	0	1,000	
			Bay			0	0	0	0	
	07/27/1995		Stream			0	0	0	1,000	
		David Owen	Mouth	E		0	0	0	10,000	
			Bay	E		0	0	0	0	
	08/05/1995		Stream	P		0	0	0	1,000	
		David Owen	Mouth	P		0	0	0	0	
			Bay	P		0	0	0	0	
	08/06/1995		Stream	E		0	0	3,000	2,000	
		David Owen	Mouth	E		0	0	1,000	3,000	
			Bay	E		0	0	0	0	
	08/28/1995		Stream	G		0	0	40,000	0	
		David Owen	Mouth	G		0	0	0	0	
			Bay	G		0	0	0	0	
, 272-510										
	07/13/1995		Stream	F		0	0	0	0	
		David Owen	Mouth	F		0	0	0	0	
			Bay	F		0	0	0	0	
	07/27/1995		Stream	E		0	0	0	500	
		David Owen	Mouth	E		0	0	2,000	0	
			Bay	E		0	0	0	0	
	08/06/1995		Stream	E		0	0	1,000	500	
		David Owen	Mouth	E		0	0	0	0	
			Bay	E		0	0	0	0	
	08/28/1995		Stream	G		0	0	15,000	0	
		David Owen	Mouth	G		0	0	0	0	
			Bay	G		0	0	0	0	

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Table 48. (page 13 of 41)

Stream	Date	Observer	Location	Visi- bility	Species					Observer Remarks
					Chinook	Sockeye	Coho	Pink	Chum	
Kujulik Bay, 272-511A										
	07/13/1995		Stream	F		0	0	0	0	
		David Owen	Mouth	F		0	0	0	0	
			Bay	F		0	0	0	0	
	07/27/1995		Stream	E		0	0	0	0	
		David Owen	Mouth	E		0	0	0	0	
			Bay	E		0	0	0	0	
	08/05/1995		Stream	E		0	0	0	200	
		David Owen	Mouth	E		0	0	0	0	
			Bay	E		0	0	0	0	
	08/28/1995		Stream	G		0	0	30,000	0	
		David Owen	Mouth	G		0	0	0	0	
			Bay	G		0	0	0	0	
Kujulik Bay, 272-511B										
	07/13/1995		Stream	F		0	0	0	0	
		David Owen	Mouth	F		0	0	0	0	
			Bay	F		0	0	0	0	
	08/05/1995		Stream	E		0	0	0	0	
		David Owen	Mouth	E		0	0	0	0	
			Bay	E		0	0	0	0	
	08/06/1995		Stream	E		0	0	0	200	
		David Owen	Mouth	E		0	0	0	0	
			Bay	E		0	0	0	0	
Kujulik Bay, 272-512										
	07/13/1995		Stream	F		0	0	0	0	
		David Owen	Mouth	F		0	0	0	0	
			Bay	F		0	0	0	0	
	07/15/1995		Stream			0	0	0	0	
		Larry Nicholson	Mouth			0	0	0	0	
			Bay			0	0	0	0	
	07/27/1995		Stream	E		0	0	0	0	
		David Owen	Mouth	E		0	0	0	0	
			Bay	E		0	0	0	0	

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Table 48. (page 14 of 41)

Stream	Date	Observer	Location	Visi- bility	Species					Observer Remarks
					Chinook	Sockeye	Coho	Pink	Chum	
	08/05/1995		Stream	P		0	0	0	0	
		David Owen	Mouth	P		0	0	0	2,000	
			Bay	P		0	0	0	0	
	08/06/1995		Stream	E		0	0	0	0	
		David Owen	Mouth	E		0	0	0	0	
			Bay	E		0	0	0	0	
	08/28/1995		Stream	G		0	0	20,000	0	
		David Owen	Mouth	G		0	0	0	0	
			Bay	G		0	0	0	0	
North Fork River, 272-514	07/05/1995		Stream	E		0	0	0	200	
		David Owen	Mouth	E		0	0	0	0	
			Bay	E		0	0	0	0	
	07/13/1995		Stream	F		0	0	0	0	
		David Owen	Mouth	F		0	0	0	0	
			Bay	F		0	0	0	0	
	07/16/1995		Stream			0	0	0	400	
		Larry Nicholson	Mouth			0	0	0	0	
			Bay			0	0	0	10,000	
	07/21/1995		Stream			0	0	0	3,000	
		Larry Nicholson	Mouth			0	0	0	0	
			Bay			0	0	0	0	
	07/27/1995		Stream	E		0	0	20,000	1,000	
		David Owen	Mouth	E		0	0	20,000	0	
			Bay	E		0	0	0	0	
	08/05/1995		Stream	G		0	0	20,000	5,000	
		David Owen	Mouth	G		0	0	6,000	2,000	
			Bay	G		0	0	0	0	
	08/06/1995		Stream	E		0	0	20,000	15,000	6 SALMON SHARKS
		David Owen	Mouth	E		0	0	0	0	
			Bay	E		0	0	0	0	

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Table 48. (page 15 of 41)

Stream	Date	Observer	Location	Visi- bility	Species					Observer	Remarks
					Chinook	Sockeye	Coho	Pink	Chum		
New Creek, 272-516	08/28/1995	David Owen	Stream	G		0	0	45,000	0	WINDY	
	Mouth		G		0	0	0	0			
	Bay		G		0	0	0	0			
	07/27/1995	David Owen	Stream	E		0	0	500	0		
	Mouth		E		0	0	2,000	0			
	Bay		E		0	0	0	0			
	08/05/1995	David Owen	Stream	P		0	0	2,000	500		
	Mouth		P		0	0	0	0			
	Bay		P		0	0	0	0			
08/06/1995	David Owen	Stream	E		0	0	7,000	500			
Mouth		E		0	0	0	0				
Bay		E		0	0	0	0				
08/28/1995	David Owen	Stream	G		0	0	39,000	0			
Mouth		G		0	0	0	0				
Bay		G		0	0	0	0				
Wolverine Creek, 272-602	07/27/1995	David Owen	Stream	E		0	0	0	1,000		
Mouth	E			0	0	5,000	10,000				
Bay	E			0	0	0	0				
Village Creek, 272-603	08/11/1995	David Owen	Stream	F		0	0	2,000	1,000		
Mouth	F			0	0	0	0				
Bay	F			0	0	0	0				
Black Creek, 272-604	07/16/1995	Larry Nicholson	Stream			0	0	0	300		
Mouth				0	0	0	0				
Bay				0	0	0	2,000				
	07/21/1995	Larry Nicholson	Stream			0	0	0	500		
Mouth				0	0	0	0				
Bay				0	0	0	0				
	07/27/1995	David Owen	Stream	E		0	0	2,000	500		
Mouth				0	0	5,000	0				
Bay				0	0	0	0				

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Table 48. (page 16 of 41)

Stream	Date	Observer	Location	Visi- bility	Species					Observer Remarks
					Chinook	Sockeye	Coho	Pink	Chum	
	07/30/1995		Stream	P		0	0	0	0	
		David Owen	Mouth	P		0	0	0	0	
			Bay	P		0	0	0	0	
	08/11/1995		Stream	F		0	0	4,000	0	
		David Owen	Mouth	F		0	0	0	0	
			Bay	F		0	0	0	0	
Aniakchak River, 272-605	07/05/1995		Stream	E		0	0	0	50	50 CHUM WERE FOUND IN ANIAKCHAK, JOHNSON OBSERVED BUT FOUND 0
		David Owen	Mouth	E		0	0	0	0	
			Bay	E		0	0	0	0	
	07/13/1995		Stream	F		0	0	0	0	
		David Owen	Mouth	F		0	0	0	100	
			Bay	F		0	0	0	0	
	07/16/1995		Stream			0	0	0	500	
		Larry Nicholson	Mouth			0	0	0	0	
			Bay			0	0	0	0	
	07/21/1995		Stream			0	0	0	2,555	
		Larry Nicholson	Mouth			0	0	0	0	
			Bay			0	0	0	0	
	07/27/1995		Stream	E		4,200	0	0	50,000	
		David Owen	Mouth	E		0	0	0	0	
			Bay	E		0	0	0	0	
	07/30/1995		Stream	P		5,000	0	0	27,000	TO WINDY IN NORTH FORK, MAIN CHANNEL OF NORTH FORK AND ALBERT JOHNSON CREEK AND MYSTERY CREEK
		David Owen	Mouth	P		0	0	0	1,000	
			Bay	P		0	0	0	0	
	08/11/1995		Stream	F		6,000	0	70,000	17,000	
		David Owen	Mouth	F		0	0	0	0	
			Bay	F		0	0	0	0	

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Table 48. (page 17 of 41)

Stream	Date	Observer	Location	Visi- bility	Species					Observer	Remarks
					Chinook	Sockeye	Coho	Pink	Chum		
Fred Gungus, 272-606											
	07/27/1995		Stream	E		0	0	4,000		0	
		David Owen	Mouth	E		0	0	10,000		0	
			Bay	E		0	0	0		0	
	07/30/1995		Stream	P		0	0	20,000		0	
		David Owen	Mouth	P		0	0	0		0	
			Bay	P		0	0	0		0	
	08/05/1995		Stream	P		0	0	26,000		0	WINDY
		David Owen	Mouth	P		0	0	0		0	
			Bay	P		0	0	0		0	
	08/11/1995		Stream	E		0	0	38,000		0	
		David Owen	Mouth	E		0	0	2,000		0	
			Bay	E		0	0	0		0	
	08/28/1995		Stream	G		0	0	45,000		0	
		David Owen	Mouth	G		0	0	0		0	
			Bay	G		0	0	0		0	
West Creek, 272-701											
	07/16/1995		Stream			0	0	0		0	
		Larry Nicholson	Mouth			0	0	0		0	
			Bay			0	0	0		0	
	07/21/1995		Stream	G		0	0	0		0	
		Larry Nicholson	Mouth	G		0	0	0		0	
			Bay	G		0	0	0		0	
	07/24/1995		Stream	E		0	0	0		0	
		Larry Nicholson	Mouth	E		0	0	0		0	
			Bay	E		0	0	0		0	
	07/27/1995		Stream	E		0	0	2,000		0	
		David Owen	Mouth	E		0	0	0		0	
			Bay	E		0	0	0		0	
	07/30/1995		Stream	P		0	0	1,500		0	
		David Owen	Mouth	P		0	0	0		0	
			Bay	P		0	0	0		0	

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Table 48. (page 18 of 41)

Stream	Date	Observer	Location	Visi- bility	Species					Observer Remarks
					Chinook	Sockeye	Coho	Pink	Chum	
Main Creek, 272-702	08/11/1995	David Owen	Stream	E		0	0	2,000	0	
	Mouth		E		0	0	0	0		
	Bay		E		0	0	0	0		
	08/28/1995	David Owen	Stream	G		0	0	15,000	0	
	Mouth		G		0	0	0	0		
	Bay		G		0	0	0	0		
	07/16/1995	Larry Nicholson	Stream			0	0	0	400	
	Mouth				0	0	0	0		
	Bay				0	0	0	2,000		
	07/21/1995	Larry Nicholson	Stream	G		0	0	0	2,000	
	Mouth		G		0	0	0	0		
	Bay		G		0	0	0	0		
	07/27/1995	David Owen	Stream	E		0	0	10,000	9,000	
	Mouth		E		0	0	12,000	0		
	Bay		E		0	0	0	0		
	07/30/1995	David Owen	Stream	P		0	0	30,000	2,000	
	Mouth		P		0	0	0	0		
	Bay		P		0	0	0	0		
	08/05/1995	David Owen	Stream	P		0	0	27,000	0	
	Mouth		P		0	0	0	0		
	Bay		P		0	0	0	0		
	08/11/1995	David Owen	Stream	E		0	0	45,000	4,000	
	Mouth		E		0	0	0	0		
	Bay		E		0	0	0	0		
	08/28/1995	David Owen	Stream	G		0	0	66,000	0	
	Mouth		G		0	0	0	0		
	Bay		G		0	0	0	0		
	07/27/1995	David Owen	Stream	E		0	0	3,000	4,000	
	Mouth		E		0	0	0	0		
	Bay		E		0	0	0	0		

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Table 48. (page 19 of 41)

Stream	Date	Observer	Location	Visi- bility	Species					Observer Remarks
					Chinook	Sockeye	Coho	Pink	Chum	
	07/30/1995	David Owen	Stream	P		0	0	4,000	4,000	
	Mouth		P		0	0	0	0		
	Bay		P		0	0	0	0		
	08/05/1995	David Owen	Stream	P		0	0	15,000	0	
	Mouth		P		0	0	1,000	0		
	Bay		P		0	0	0	0		
	08/11/1995	David Owen	Stream	E		0	0	46,000	5,000	
	Mouth		E		0	0	3,000	0		
	Bay		E		0	0	0	0		
	08/28/1995	David Owen	Stream	E		0	0	55,000	0	
	Mouth		E		0	0	0	0		
	Bay		E		0	0	0	0		
Cape Kunmik, 272-704										
	07/30/1995	David Owen	Stream	P		0	0	0	0	
	Mouth		P		0	0	0	0		
	Bay		P		0	0	0	0		
	08/28/1995	David Owen	Stream	G		0	0	11,000	0	
	Mouth		G		0	0	0	0		
	Bay		G		0	0	0	0		
Yantarni Bay, 272-720										
	07/27/1995	David Owen	Stream	E		0	0	0	0	
	Mouth		E		0	0	0	0		
	Bay		E		0	0	0	0		
	08/28/1995	David Owen	Stream	G		0	0	4,000	0	
	Mouth		G		0	0	0	0		
	Bay		G		0	0	0	0		
Yantarni Creek, 272-721										
	07/27/1995	David Owen	Stream	E		0	0	0	0	
	Mouth		E		0	0	0	0		
	Bay		E		0	0	0	0		
	07/30/1995	David Owen	Stream	P		0	0	0	10,000	
	Mouth		P		0	0	0	0		
	Bay		P		0	0	0	0		

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Table 48. (page 20 of 41)

Stream	Date	Observer	Location	Visi- bility	Species					Observer Remarks
					Chinook	Sockeye	Coho	Pink	Chum	
Ocean Beach, 272-801	08/28/1995	David Owen	Stream	G		0	0	54,000	0	
	Mouth		G		0	0	0	0		
	Bay		G		0	0	0	0		
	07/16/1995	Larry Nicholson	Stream		0	0	0	0		
	Mouth			0	0	0	0			
	Bay			0	0	0	0			
	07/21/1995	Larry Nicholson	Stream	F	0	0	0	0		
	Mouth		F	0	0	0	0			
	Bay		F	0	0	0	0			
	07/27/1995	David Owen	Stream	E	0	0	300	0		
	Mouth		E	0	0	1,000	0			
	Bay		E	0	0	250	0			
	07/30/1995	David Owen	Stream	P	0	0	8,000	3,000		
	Mouth		P	0	0	3,000	0			
	Bay		P	0	0	0	0			
	08/05/1995	David Owen	Stream	G	0	0	9,000	3,000		
	Mouth		G	0	0	1,000	0			
	Bay		G	0	0	2,000	0			
	08/28/1995	David Owen	Stream	G	0	0	53,000	0		
	Mouth		G	0	0	0	0			
	Bay		G	0	0	0	0			
	07/16/1995	Larry Nicholson	Stream		0	0	0	0		
	Mouth			0	0	0	0			
	Bay			0	0	0	0			
	07/21/1995	Larry Nicholson	Stream	F	0	0	0	0		
	Mouth		F	0	0	0	0			
	Bay		F	0	0	0	0			
	07/27/1995	David Owen	Stream	E	0	0	0	0		
	Mouth		E	0	0	0	0			
	Bay		E	0	0	0	0			

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Table 48. (page 21 of 41)

Stream	Date	Observer	Location	Visi- bility	Species					Observer Remarks
					Chinook	Sockeye	Coho	Pink	Chum	
	07/30/1995		Stream	P		100	0	0	0	
		David Owen	Mouth	P		0	0	0	0	
			Bay	P		0	0	0	0	
	08/05/1995		Stream	G		0	0	0	1,000	
		David Owen	Mouth	G		0	0	0	0	
			Bay	G		0	0	0	0	
	08/28/1995		Stream	G		0	0	7,000	1,000	
		David Owen	Mouth	G		0	0	0	0	
			Bay	G		0	0	0	0	
	08/30/1995		Stream	E		0	0	24,000	2,000	
		David Owen	Mouth	E		0	0	0	0	
			Bay	E		0	0	0	0	
103	Nakalilok Bay, 272-803									
	07/16/1995		Stream			0	0	0	0	
		Larry Nicholson	Mouth			0	0	0	0	
			Bay			0	0	0	0	
	07/21/1995		Stream			0	0	0	0	
		Larry Nicholson	Mouth			0	0	0	0	
			Bay			0	0	0	0	
	07/24/1995		Stream	E		0	0	0	0	THREE LARGE SCHOOLS OF PINKS IN THE BAY, NO ESTIMATES MADE BECAUSE OF DEPTH
		Larry Nicholson	Mouth	E		0	0	0	0	
			Bay	E		0	0	0	0	
	07/27/1995		Stream	E		0	0	0	0	
		David Owen	Mouth	E		0	0	0	0	
			Bay	E		0	0	0	0	
	08/30/1995		Stream	E		0	0	8,000	0	
		David Owen	Mouth	E		0	0	0	0	
			Bay	E		0	0	0	0	
	Nakalilok River, 272-804									
	07/16/1995		Stream			0	0	0	0	
		Larry Nicholson	Mouth			0	0	0	0	
			Bay			0	0	0	0	

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Table 48. (page 22 of 41)

Stream	Date	Observer	Location	Visi- bility	Species					Observer Remarks
					Chinook	Sockeye	Coho	Pink	Chum	
	07/21/1995	Larry Nicholson	Stream			0	0	0	0	
	Mouth			0	0	0	0			
	Bay			0	0	0	0			
	07/24/1995	Larry Nicholson	Stream	E		0	0	0	0	
	Mouth		E		0	0	0	0		
	Bay		E		0	0	0	0		
	07/27/1995	David Owen	Stream	E		0	0	0	400	
	Mouth		E		0	0	1,500	1,500		
	Bay		E		0	0	0	0		
	08/30/1995	David Owen	Stream	E		0	0	51,000	0	
	Mouth		E		0	0	50,000	0		
	Bay		E		0	0	0	0		
Nakalilok Bay(north), 272-805										
	07/27/1995	David Owen	Stream	E		0	0	0	0	
	Mouth		E		0	0	0	0		
	Bay		E		0	0	0	0		
	08/30/1995	David Owen	Stream	E		0	0	22,000	0	
	Mouth		E		0	0	5,000	0		
	Bay		E		0	0	0	0		
, 272-900										
	07/27/1995	David Owen	Stream	E		0	0	0	0	
	Mouth		E		0	0	0	0		
	Bay		E		0	0	0	0		
	08/30/1995	David Owen	Stream	E		0	0	12,000	0	
	Mouth		E		0	0	4,000	0		
	Bay		E		0	0	0	0		
Cape Kuyuyukak, 272-901										
	07/16/1995	Larry Nicholson	Stream			0	0	0	0	
	Mouth				0	0	0	0		
	Bay				0	0	0	0		
	07/24/1995	Larry Nicholson	Stream	E		0	0	0	0	
	Mouth		E		0	0	0	0		
	Bay		E		0	0	0	0		

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Table 48. (page 23 of 41)

Stream	Date	Observer	Location	Visi- bility	Species					Observer Remarks
					Chinook	Sockeye	Coho	Pink	Chum	
	07/27/1995		Stream	E		0	0	0	0	
		David Owen	Mouth	E		0	0	0	0	
			Bay	E		0	0	0	0	
	08/05/1995		Stream	G		0	0	0	0	
		David Owen	Mouth	G		0	0	0	0	
			Bay	G		0	0	3,000		
	08/30/1995		Stream	E		0	0	10,000	0	
		David Owen	Mouth	E		0	0	4,000	0	
			Bay	E		0	0	0	0	
Cape Kuyuyukak, 272-902										
	07/16/1995		Stream			0	0	0	0	
		Larry Nicholson	Mouth			0	0	0	0	
			Bay			0	0	0	0	
	07/24/1995		Stream	E		0	0	0	0	
		Larry Nicholson	Mouth	E		0	0	0	0	
			Bay	E		0	0	0	0	
	07/27/1995		Stream	E		0	0	0	0	
		David Owen	Mouth	E		0	0	700	5,000	
			Bay	E		0	0	0	0	
	08/30/1995		Stream	E		0	0	33,000	0	
		David Owen	Mouth	E		0	0	30,000	0	
			Bay	E		0	0	0	0	
Chiginagak River, 272-903										
	07/16/1995		Stream			0	0	0	0	
		Larry Nicholson	Mouth			0	0	0	0	SECTIONS A AND B OF THE
			Bay			0	0	0	2,000	CHIGINAGAK RIVER
	07/21/1995		Stream			0	0	0	0	
		Larry Nicholson	Mouth			0	0	0	0	SECTIONS A AND B SURVEYED
			Bay			0	0	0	0	
	07/24/1995		Stream	E		0	0	0	300	
		Larry Nicholson	Mouth	E		0	0	0	0	
			Bay	E		0	0	0	0	

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Table 48. (page 24 of 41)

Stream	Date	Observer	Location	Visi- bility	Species					Observer Remarks
					Chinook	Sockeye	Coho	Pink	Chum	
Chiginagak River, 272-903A	07/27/1995	David Owen	Stream	E		0	0	0	0	
	Mouth		E		0	0	0	0		
	Bay		E		0	0	0	0		
	07/30/1995	David Owen	Stream	P		0	0	0	0	
	Mouth		P		0	0	0	0		
	Bay		P		0	0	0	0		
	07/27/1995	David Owen	Stream	E		0	0	400	0	
	Mouth		E		0	0	0	0		
	Bay		E		0	0	0	0		
	07/30/1995	David Owen	Stream	P		0	0	0	2,000	
	Mouth		P		0	0	0	0		
	Bay		P		0	0	0	3,000		
	08/30/1995	David Owen	Stream	E		0	0	80,000	0	
	Mouth		E		0	0	3,000	0		
	Bay		E		0	0	0	0		
	08/30/1995	David Owen	Stream	E		0	0	0	0	
	Mouth		E		0	0	0	0		
	Bay		E		0	0	15,000	0		
	07/16/1995	Larry Nicholson	Stream			0	0	0	0	
	Mouth				0	0	0	0		
	Bay				0	0	0	0		
	07/21/1995	Larry Nicholson	Stream			0	0	0	0	
	Mouth				0	0	0	0		
	Bay				0	0	0	0		
	07/24/1995	Larry Nicholson	Stream	E		0	0	0	0	
	Mouth		E		0	0	0	0		
	Bay		E		0	0	0	0		
	07/27/1995	David Owen	Stream	E		0	0	0	0	
	Mouth		E		0	0	2,000	0		
	Bay		E		0	0	0	0		

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Table 48. (page 25 of 41)

Stream	Date	Observer	Location	Visi- bility	Species					Observer Remarks
					Chinook	Sockeye	Coho	Pink	Chum	
	07/30/1995		Stream	P		0	0	0	0	
		David Owen	Mouth	P		0	0	0	0	
			Bay	P		0	0	0	0	
	08/05/1995		Stream	G		0	0	2,000	0	VERY WINDY
		David Owen	Mouth	G		0	0	2,000	0	
			Bay	G		0	0	0	0	
	08/30/1995		Stream	E		0	0	35,000	0	
		David Owen	Mouth	E		0	0	75,000	0	
			Bay	E		0	0	50,000	0	
Chiginagak Bay, 272-905										
	07/16/1995		Stream			0	0	0	0	
		Larry Nicholson	Mouth			0	0	0	0	
			Bay			0	0	0	0	
	07/21/1995		Stream			0	0	0	0	
		Larry Nicholson	Mouth			0	0	0	0	
			Bay			0	0	0	0	
	07/27/1995		Stream	E		0	0	0	0	
		David Owen	Mouth	E		0	0	0	0	
			Bay	E		0	0	0	0	
	07/30/1995		Stream	P		0	0	300	0	
		David Owen	Mouth	P		0	0	0	0	
			Bay	P		0	0	0	0	
	08/05/1995		Stream	G		0	0	0	0	
		David Owen	Mouth	G		0	0	0	0	
			Bay	G		0	0	0	0	
	08/30/1995		Stream	E		0	0	7,000	0	
		David Owen	Mouth	E		0	0	0	0	
			Bay	E		0	0	0	0	
Chiginagak Bay, 272-906										
	07/27/1995		Stream	E		0	0	750	0	
		David Owen	Mouth	E		0	0	500	0	
			Bay	E		0	0	0	0	

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Table 48. (page 26 of 41)

Stream	Date	Observer	Location	Visi- bility	Species				Observer Remarks
					Chinook	Sockeye	Coho	Pink	Chum
	07/30/1995		Stream	P		0	0	0	0
		David Owen	Mouth	P		0	0	0	0
			Bay	P		0	0	0	0
	08/05/1995		Stream	G		0	0	0	0
		David Owen	Mouth	G		0	0	5,000	0
			Bay	G		0	0	0	0
	08/30/1995		Stream	E		0	0	37,000	0
		David Owen	Mouth	E		0	0	75,000	0
			Bay	E		0	0	0	0
Chiginagak Bay, 272-907									
	07/27/1995		Stream	E		0	0	0	0
		David Owen	Mouth	E		0	0	0	0
			Bay	E		0	0	0	0
	07/30/1995		Stream	P		0	0	0	0
		David Owen	Mouth	P		0	0	0	0
			Bay	P		0	0	0	0
	08/30/1995		Stream	E		0	0	7,000	0
		David Owen	Mouth	E		0	0	0	0
			Bay	E		0	0	0	0
Port Wrangell Bay, 272-921									
	07/24/1995		Stream	E		0	0	0	0
		Larry Nicholson	Mouth	E		0	0	0	0
			Bay	E		0	0	0	0
	07/27/1995		Stream	E		0	0	0	300
		David Owen	Mouth	E		0	0	0	0
			Bay	E		0	0	0	0
	08/30/1995		Stream	E		0	0	24,000	0
		David Owen	Mouth	E		0	0	0	0
			Bay	E		0	0	0	0
Port Wrangell Bay, 272-922									
	07/24/1995		Stream	E		0	0	0	0
		Larry Nicholson	Mouth	E		0	0	0	0
			Bay	E		0	0	0	0

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Table 48. (page 27 of 41)

Stream	Date	Observer	Location	Visi- bility	Species					Observer Remarks	
					Chinook	Sockeye	Coho	Pink	Chum		
109	07/27/1995	David Owen	Stream	E		0	0	0	0		
	Mouth		E		0	0	0	0			
	Bay		E		0	0	0	0			
	07/30/1995	David Owen	Stream	P		0	0	0	0		
	Mouth		P		0	0	0	0			
	Bay		P		0	0	0	0			
	08/30/1995	David Owen	Stream	E		0	0	22,000	0		
	Mouth		E		0	0	15,000	0			
	Bay		E		0	0	0	0			
	Cape Providence, 272-923										
	07/16/1995	Larry Nicholson	Stream			0	0	0	0		
	Mouth				0	0	0	0			
	Bay				0	0	0	0			
	07/21/1995	Larry Nicholson	Stream			0	0	0	0		
	Mouth				0	0	0	0			
	Bay				0	0	0	0			
	07/24/1995	Larry Nicholson	Stream	E		0	0	0	0		
	Mouth		E		0	0	0	0			
	Bay		E		0	0	0	0			
	07/27/1995	David Owen	Stream	E		0	0	0	0		
	Mouth		E		0	0	0	0			
	Bay		E		0	0	0	0			
	07/30/1995	David Owen	Stream	P		0	0	0	0		
	Mouth		P		0	0	0	4,000			
	Bay		P		0	0	0	0			
	08/30/1995	David Owen	Stream	E		0	0	10,000	0		
	Mouth		E		0	0	7,000	0			
	Bay		E		0	0	0	0			
	Agripina River, 272-961										
	07/24/1995	Larry Nicholson	Stream	E		0	0	500	0		
	Mouth		E		0	0	0	0			
	Bay		E		0	0	0	0			

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Table 48. (page 28 of 41)

Stream	Date	Observer	Location	Visi- bility	Species					Observer Remarks
					Chinook	Sockeye	Coho	Pink	Chum	
Surprise Lake, 272-961A										
	07/24/1995		Stream	E		0	0	0	0	
		Larry Nicholson	Mouth	E		0	0	0	0	
			Bay	E		0	0	0	0	
	07/30/1995		Stream	P		0	0	0	1,500	
		David Owen	Mouth	P		0	0	0	0	
			Bay	P		0	0	0	0	
	08/30/1995		Stream	E		0	0	70,000	2,000	
		David Owen	Mouth	E		0	0	30,000	0	
			Bay	E		0	0	0	0	
Agripina Slough, 272-961B										
	07/24/1995		Stream	E		0	0	500	0	
		David Owen	Mouth	E		0	0	0	0	
			Bay	E		0	0	0	0	
	07/30/1995		Stream	P		0	0	5,000	0	
		David Owen	Mouth	P		0	0	0	0	
			Bay	P		0	0	0	0	
	08/30/1995		Stream	E		100	0	15,000	0	
		David Owen	Mouth	E		0	0	0	0	
			Bay	E		0	0	0	0	
Glacier Creek, 272-962										
	07/24/1995		Stream	E		0	0	0	0	
		Larry Nicholson	Mouth	E		0	0	0	0	
			Bay	E		0	0	0	0	
	07/30/1995		Stream	P		0	0	0	200	
		David Owen	Mouth	P		0	0	0	0	
			Bay	P		0	0	0	0	
	08/30/1995		Stream	E		0	0	4,000	0	
		David Owen	Mouth	E		0	0	5,000	0	
			Bay	E		0	0	0	0	
Glacier Creek, 272-962A										
	07/30/1995		Stream	P		0	0	0	0	
		David Owen	Mouth	P		0	0	0	0	
			Bay	P		0	0	0	0	

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Table 48. (page 29 of 41)

Stream	Date	Observer	Location	Visi- bility	Species					Observer Remarks
					Chinook	Sockeye	Coho	Pink	Chum	
	08/30/1995	David Owen	Stream	E		0	0	9,000	0	
			Mouth	E		0	0	20,000	0	
			Bay	E		0	0	0	0	
Kilokak Creek, 272-963	07/24/1995	Larry Nicholson	Stream	E		0	0	0	0	
			Mouth	E		0	0	0	0	
			Bay	E		0	0	0	0	
	07/30/1995	David Owen	Stream	G		0	0	0	0	
			Mouth	G		0	0	0	0	
			Bay	G		0	0	0	0	
UPPER	08/30/1995	David Owen	Stream	E		0	0	4,000	0	CARCUSES IN STREAM, REACHES DRY
			Mouth	E		0	0	25,000	0	
			Bay	E		0	0	0	0	
Red Bluff Creek, 273-702	07/13/1995	David Owen	Stream	F		0	0	0	100	
			Mouth	F		0	0	0	0	
			Bay	F		0	0	0	0	
	07/15/1995	Larry Nicholson	Stream	G		0	0	0	0	
			Mouth	G		0	0	0	0	
			Bay	G		0	0	200	0	
	07/24/1995	David Owen	Stream	G		0	0	20,000	0	
			Mouth	G		0	0	0	0	
			Bay	G		0	0	0	0	
	07/28/1995	David Owen	Stream	P		0	0	40,000	0	
			Mouth	P		0	0	0	0	
			Bay	P		0	0	0	0	
	08/08/1995	David Owen	Stream	P		0	0	61,000	0	
			Mouth	P		0	0	0	0	
			Bay	P		0	0	0	0	
	08/21/1995	David Owen	Stream	G		0	0	75,000	0	
			Mouth	G		0	0	5,000	0	
			Bay	G		0	0	0	0	

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Table 48. (page 30 of 41)

Stream	Date	Observer	Location	Visi- bility	Species					Observer Remarks
					Chinook	Sockeye	Coho	Pink	Chum	
Mitrofan Bay, 273-720	09/01/1995	David Owen	Stream	E		0	0	55,000	0	
			Mouth	E		0	0	0	0	
			Bay	E		0	0	0	0	
	07/13/1995	David Owen	Stream	F		0	0	0	0	
			Mouth	F		0	0	0	0	
			Bay	F		0	0	0	0	
	07/24/1995	David Owen	Stream	G		0	0	0	200	
			Mouth	G		0	0	0	0	
			Bay	G		0	0	0	0	
	08/08/1995	David Owen	Stream	P		0	0	1,000	0	
			Mouth	P		0	0	0	0	
			Bay	P		0	0	0	0	
	08/21/1995	David Owen	Stream	G		0	0	500	0	
			Mouth	G		0	0	0	0	
			Bay	G		0	0	0	0	
	09/01/1995	David Owen	Stream	E		0	0	4,000	0	
			Mouth	E		0	0	0	0	
			Bay	E		0	0	0	0	
Ivan River, 273-722	07/05/1995	David Owen	Stream	E		0	0	0	0	
			Mouth	E		0	0	0	0	
			Bay	E		0	0	0	0	
	07/13/1995	David Owen	Stream	F		0	0	0	0	
			Mouth	F		0	0	0	0	
			Bay	F		0	0	0	0	
	07/15/1995	Larry Nicholson	Stream	G		0	0	0	0	
			Mouth	G		0	0	0	0	
			Bay	G		0	0	0	0	
	07/24/1995	David Owen	Stream	G		0	0	5,000	500	
			Mouth	G		0	0	0	0	
			Bay	G		0	0	0	0	

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Table 48. (page 31 of 41)

Stream	Date	Observer	Location	Visi- bility	Species				Observer Remarks
					Chinook	Sockeye	Coho	Pink	
113	07/28/1995	David Owen	Stream	P		0	0	0	1,000
	Mouth		P		0	0	0	0	
	Bay		P		0	0	0	0	
	08/08/1995	David Owen	Stream	P		0	0	30,000	0
	Mouth		P		0	0	0	0	
	Bay		P		0	0	0	0	
	08/21/1995	David Owen	Stream	G		0	0	120,000	0
	Mouth		G		0	0	3,000	0	
	Bay		G		0	0	0	0	
	Fishrack Bay, 273-723								
	07/24/1995	David Owen	Stream	G		0	0	0	0
	Mouth		G		0	0	0	0	
	Bay		G		0	0	0	500	
	07/28/1995	David Owen	Stream	P		0	0	0	0
	Mouth		P		0	0	0	0	
	Bay		P		0	0	0	0	
	08/21/1995	David Owen	Stream	G		0	0	1,000	0
	Mouth		G		0	0	20,000	0	
	Bay		G		0	0	0	0	
	Foot Creek, 273-802								
	07/05/1995	David Owen	Stream	E		0	0	0	0
	Mouth		E		0	0	0	0	
	Bay		E		0	0	0	0	
	07/13/1995	David Owen	Stream	F		0	0	0	0
	Mouth		F		0	0	0	0	
	Bay		F		0	0	0	0	
	07/15/1995	Larry Nicholson	Stream	F		0	0	0	0
	Mouth		F		0	0	0	0	
	Bay		F		0	0	0	0	
	07/24/1995	David Owen	Stream	G		0	0	0	0
	Mouth		G		0	0	0	0	
	Bay		G		0	0	0	0	

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Table 48. (page 32 of 41)

Stream	Date	Observer	Location	Visi- bility	Species					Observer Remarks
					Chinook	Sockeye	Coho	Pink	Chum	
114	07/28/1995	David Owen	Stream	P		0	0	0	0	
	Mouth		P		0	0	0	0		
	Bay		P		0	0	0	0		
	08/08/1995	David Owen	Stream	P		0	0	500	0	
	Mouth		P		0	0	0	0		
	Bay		P		0	0	0	0		
	08/21/1995	David Owen	Stream	G		0	0	4,000	0	
	Mouth		G		0	0	20,000	0		
	Bay		G		0	0	0	0		
	08/27/1995	David Owen	Stream	P		0	0	16,000	0	
	Mouth		P		0	0	3,000	0		
	Bay		P		0	0	0	0		
	Windy Creek, 273-821									
	07/13/1995	David Owen	Stream	F		0	0	0	0	
	Mouth		F		0	0	0	0		
	Bay		F		0	0	0	0		
	07/28/1995	David Owen	Stream	P		0	0	0	0	DRIED UP
	Mouth		P		0	0	0	0		
	Bay		P		0	0	0	0		
	08/08/1995	David Owen	Stream	P		0	0	0	0	
	Mouth		P		0	0	1,000	0		
	Bay		P		0	0	0	0		
	08/27/1995	David Owen	Stream	P		0	0	750	0	
	Mouth		P		0	0	3,000			
	Bay		P							
	, 273-822									
	07/28/1995	David Owen	Stream	P		0	0	0	0	
	Mouth		P		0	0	0	0		
	Bay		P		0	0	0	0		
	08/12/1995	David Owen	Stream	E		0	0	500	0	
	Mouth		E		0	0	0	0		
	Bay		E		0	0	500	0		

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Table 48. (page 33 of 41)

Stream	Date	Observer	Location	Visi- bility	Species				Observer Remarks	
					Chinook	Sockeye	Coho	Pink		Chum
Spoon Creek, 273-823	08/27/1995	David Owen	Stream	P		0	0	2,000	0	
	Mouth		P		0	0	200	0		
	Bay		P		0	0	0	0		
	07/13/1995	David Owen	Stream	F		0	0	0	0	
	Mouth		F		0	0	0	0		
	Bay		F		0	0	0	0		
	07/15/1995	Larry Nicholson	Stream	F		0	0	0	0	NO JUMPERS
	Mouth		F		0	0	0	0		
	Bay		F		0	0	0	0		
	07/28/1995	David Owen	Stream	P		0	0	0	0	
	Mouth		P		0	0	0	0		
	Bay		P		0	0	0	0		
	08/08/1995	David Owen	Stream	P		0	0	50	0	
	Mouth		P		0	0	2,000	0		
	Bay		P		0	0	0	0		
	08/12/1995	David Owen	Stream	E		0	0	500	0	
	Mouth		E		0	0	500	0		
	Bay		E		0	0	0	0		
	08/27/1995	David Owen	Stream	P		0	0	7,000	0	
	Mouth		P		0	0	3,000	0		
	Bay		P		0	0	0	0		
Portage Creek, 273-842	07/05/1995	David Owen	Stream	E		0	0	0	0	
	Mouth		E		0	0	0	0		
	Bay		E		0	0	0	0		
	07/13/1995	David Owen	Stream	F		0	0	0	0	
	Mouth		F		0	0	0	0		
	Bay		F		0	0	0	0		
	07/15/1995	Larry Nicholson	Stream	F		0	0	0	0	
	Mouth		F		0	0	0	0		
	Bay		F		0	0	0	2,000		

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Table 48. (page 34 of 41)

Stream	Date	Observer	Location	Visi- bility	Species				Observer Remarks	
					Chinook	Sockeye	Coho	Pink		Chum
	07/24/1995	David Owen	Stream	F		0	0	0	200	
	Mouth		F		0	0	0	200		
	Bay		F		0	0	0	0		
	07/28/1995	David Owen	Stream	P		0	0	0	0	
	Mouth		P		0	0	0	0		
	Bay		P		0	0	0	0		
	08/08/1995	David Owen	Stream	P		0		500	200	
	Mouth		P		0		5,000	5,000		
	Bay		P		0	0	0	0		
	08/12/1995	David Owen	Stream	E		0		3,000	5,000	
	Mouth		E		0		3,000	5,000		
	Bay		E		0	0	0	0		
	08/21/1995	David Owen	Stream	G		0		21,000	3,000	
	Mouth		G		0		0	0		
	Bay		G		0	0	0	0		
	08/27/1995	David Owen	Stream	G		0		22,000	0	
	Mouth		G		0		10,000	30,000		
	Bay		G							
	09/01/1995	David Owen	Stream	E		0		25,000	0	
	Mouth		E		0		0	20,000		
	Bay		E		0	0	0	0		
Seal Bay, 273-843										
	07/24/1995	David Owen	Stream	G		0		0	100	
	Mouth		G		0		0	0		
	Bay		G		0	0	0	0		
	07/28/1995	David Owen	Stream	P		0		0	0	
	Mouth		P		0		0	0		
	Bay		P		0	0	0	0		
	08/12/1995	David Owen	Stream	E		0		0	0	
	Mouth		E		0		0	0		
	Bay		E		0	0	0	0		

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Table 48. (page 35 of 41)

Stream	Date	Observer	Location	Visi- bility	Species				Observer Remarks
					Chinook	Sockeye	Coho	Pink	
Seal Bay, 273-844	08/27/1995	David Owen	Stream	G		0	0	12,000	0
	Mouth		G		0	0	15,000	0	
	Bay		G		0	0	0	0	
	07/28/1995	David Owen	Stream	P		0	0	0	0
	Mouth		P		0	0	0	0	
	Bay		P		0	0	0	0	
	08/12/1995	David Owen	Stream	E		0	0	1,500	0
	Mouth		E		0	0	5,000	0	
	Bay		E		0	0	0	0	
08/27/1995	David Owen	Stream	G		0	0	0	0	
Mouth		G		0	0	20,000	0		
Bay		G		0	0	0	0		
Dog Bay, 273-845	07/24/1995	David Owen	Stream	G		0	0	0	400
	Mouth		G		0	0	0	0	
	Bay		G		0	0	0	0	
	07/28/1995	David Owen	Stream	P		0	0	0	200
	Mouth		P		0	0	0	0	
	Bay		P		0	0	0	0	
	08/12/1995	David Owen	Stream	E		0	0	2,000	0
	Mouth		E		0	0	6,000	0	
	Bay		E		0	0	0	0	
08/21/1995	David Owen	Stream	G		0	0	7,000	0	
Mouth		G		0	0	5,000	0		
Bay		G		0	0	0	0		
08/27/1995	David Owen	Stream	G		0	0	15,000	0	
Mouth		G		0	0	5,000	0		
Bay		G		0	0	10,000	0		
Castle Creek, 273-941	08/27/1995	David Owen	Stream	G		0	0	10,000	0
	Mouth		G		0	0	30,000	10,000	
	Bay		G		0	0	0	0	

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Table 48. (page 36 of 41)

Stream	Date	Observer	Location	Visi- bility	Species					Observer Remarks
					Chinook	Sockeye	Coho	Pink	Chum	
Hag Creek, 275-400										
	08/21/1995		Stream	G		0	0	0	0	
		David Owen	Mouth	G		0	0	10,000	0	
			Bay	G		0	0	0	0	
	09/01/1995		Stream	E		0	0	0	0	
		David Owen	Mouth	E		0	0	2,000	0	
			Bay	E		0	0	0	0	
Kupreanof Peninsula, 275-401										
	07/28/1995		Stream	G		0	0	0	500	
		David Owen	Mouth	G		0	0	0	0	
			Bay	G		0	0	0	0	
	08/21/1995		Stream	G		0	0	5,000	0	
		David Owen	Mouth	G		0	0	10,000	0	
			Bay	G		0	0	0	0	
	09/01/1995		Stream	E		0	0	26,000	0	
		David Owen	Mouth	E		0	0	0	0	
			Bay	E		0	0	1,000	0	
Smokey Hollow Creek, 275-402										
	07/24/1995		Stream	G		0	0	0	1,500	
		David Owen	Mouth	G		0	0	0	0	
			Bay	G		0	0	0	0	
	07/28/1995		Stream	P		0	0	0	200	
		David Owen	Mouth	P		0	0	0	0	
			Bay	P		0	0	0	0	
	08/08/1995		Stream	P		0	0	4,000	0	
		David Owen	Mouth	P		0	0	5,000	0	
			Bay	P		0	0	0	0	
	08/21/1995		Stream	G		0	0	6,000	0	
		David Owen	Mouth	G		0	0	1,000	0	
			Bay	G		0	0	0	0	
	09/01/1995		Stream	E		0	0	13,000	0	
		David Owen	Mouth	E		0	0	7,000	0	
			Bay	E		0	0	0	0	

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Table 48. (page 37 of 41)

Stream	Date	Observer	Location	Visi- bility	Species					Observer Remarks
					Chinook	Sockeye	Coho	Pink	Chum	
Ivanof Bay, 275-403										
	07/24/1995		Stream	G		0	0	0	500	
		David Owen	Mouth	G		0	0	0	0	
			Bay	G		0	0	0	0	
	07/28/1995		Stream	P		0	0	0	0	
		David Owen	Mouth	P		0	0	0	0	
			Bay	P		0	0	0	0	
	08/08/1995		Stream	P		0	0	0	0	
		David Owen	Mouth	P		0	0	0	0	
			Bay	P		0	0	0	0	
	08/21/1995		Stream	G		0	0	0	0	
		David Owen	Mouth	G		0	0	100	0	
			Bay	G		0	0	0	0	
	09/01/1995		Stream	E		0	0	500	0	
		David Owen	Mouth	E		0	0	0	0	
			Bay	E		0	0	0	0	
Wasco's Creek, 275-404										
	07/15/1995		Stream	G		0	0	0	3,000	NOTHING OFF CREEK MOUTH
		Larry Nicholson	Mouth	G		0	0	0	0	
			Bay	G		0	0	0	0	
	07/24/1995		Stream	G		0	0	0	500	
		David Owen	Mouth	G		0	0	0	0	
			Bay	G		0	0	0	0	
	07/28/1995		Stream	P		0	0	0	1,200	
		David Owen	Mouth	P		0	0	0	0	
			Bay	P		0	0	0	0	
	08/08/1995		Stream	P		0	0	400	200	
		David Owen	Mouth	P		0	0	1,000	0	
			Bay	P		0	0	0	0	
	08/21/1995		Stream	G		0	0	1,000	0	
		David Owen	Mouth	G		0	0	1,000	0	
			Bay	G		0	0	0	0	

-Continued-

Table 48. (page 38 of 41)

Stream	Date	Observer	Location	Visi- bility	Species				Observer Remarks
					Chinook	Sockeye	Coho	Pink	
	09/01/1995	David Owen	Stream	E		0	0	14,000	0
			Mouth	E		0	0	0	0
			Bay	E		0	0	0	0
Sunnyside Creek, 275-405	07/15/1995	Larry Nicholson	Stream	G		0	0	0	300
			Mouth	G		0	0	0	0
			Bay	G		0	0	0	0
	09/01/1995	David Owen	Stream	E		0	0	2,000	0
			Mouth	E		0	0	0	0
			Bay	E		0	0	0	0
Ivanof River, 275-406	07/02/1995	David Owen	Stream	E		0	0	0	0
			Mouth	E		0	0	0	50,000
			Bay	E		0	0	0	50,000
	07/04/1995	David Owen	Stream	E		0	0	0	2,000
			Mouth	E		0	0	0	5,000
			Bay	E		0	0	0	0
	07/05/1995	David Owen	Stream	E		0	0	0	6,000
			Mouth	E		0	0	0	25,000
			Bay	E		0	0	0	50,000
	07/13/1995	David Owen	Stream	P		0	0	0	15,000
			Mouth	P		0	0	0	3,000
			Bay	P		0	0	0	20,000
	07/15/1995	Larry Nicholson	Stream	G		0	0	0	11,500
			Mouth	G		0	0	0	35,000
			Bay	G		0	0	0	0
	07/24/1995	David Owen	Stream	G		0	0	20,000	55,000
			Mouth	F		0	0	20,000	0
			Bay	F		0	0	0	0
	07/28/1995	David Owen	Stream	P		0	0	25,000	65,000
			Mouth	P		0	0	0	0
			Bay	P		0	0	0	0

-Continued-

Table 48. (page 39 of 41)

Stream	Date	Observer	Location	Visi- bility	Species				Observer Remarks
					Chinook	Sockeye	Coho	Pink	Chum
	08/08/1995		Stream	P		0	0	23,000	13,000
		David Owen	Mouth	P		0	0	40,000	10,000
			Bay	P		0	0	15,000	0
	08/21/1995		Stream	G		0	0	60,000	0
		David Owen	Mouth	G		0	0	200,000	35,000
			Bay	G		0	0	200,000	0
	09/01/1995		Stream	E		0	0	145,000	0
		David Owen	Mouth	E		0	0	50,000	0
			Bay	E		0	2,000	0	50,000
Wolverine Cove, 275-408	09/01/1995		Stream	E		0	0	8,000	0
		David Owen	Mouth	E		0	0	7,000	0
			Bay	E		0	0	0	0
Humpback Creek, 275-502	07/13/1995		Stream	F		0	0	0	0
		David Owen	Mouth	F		0	0	0	0
			Bay	F		0	0	0	0
	07/15/1995		Stream	G		0	0	1,500	0
		Larry Nicholson	Mouth	G		0	0	0	0
			Bay	G		0	0	1,000	0
	07/24/1995		Stream	G		0	0	25,000	700
		David Owen	Mouth	G		0	0	1,000	0
			Bay	G		0	0	0	0
	07/28/1995		Stream	P		0	0	42,000	0
		David Owen	Mouth	P		0	0	0	0
			Bay	P		0	0	0	0
	08/08/1995		Stream	P		0	0	25,000	0
		David Owen	Mouth	P		0	0	0	0
			Bay	P		0	0	60,000	0
	08/21/1995		Stream	G		0	0	100,000	0
		David Owen	Mouth	G		0	0	50,000	0
			Bay	G		0	0	15,000	0

-Continued-

Table 48. (page 40 of 41)

Stream	Date	Observer	Location	Visi- bility	Species				Observer Remarks
					Chinook	Sockeye	Coho	Pink	Chum
	09/01/1995		Stream	E		0	0	50,000	0
		David Owen	Mouth	E		0	0	30,000	0
			Bay	E		0	0	0	0
Humpback Bay, 275-503									
	07/13/1995		Stream	F		0	0	0	0
		David Owen	Mouth	F		0	0	0	0
			Bay	F		0	0	0	200
	07/24/1995		Stream	G		0	0	0	0
		David Owen	Mouth	G		0	0	0	0
			Bay	G		0	0	0	0
Humpback Bay Creek, 275-504									
	07/13/1995		Stream	F		0	0	0	0
		David Owen	Mouth	F		0	0	0	0
			Bay	F		0	0	0	0
	07/24/1995		Stream	G		0	0	0	0
		David Owen	Mouth	G		0	0	0	0
			Bay	G		0	0	0	0
	07/28/1995		Stream	P		0	0	0	0
		David Owen	Mouth	P		0	0	2,000	0
			Bay	P		0	0	0	0
	08/08/1995		Stream	P		0	0	500	0
		David Owen	Mouth	P		0	0	20,000	0
			Bay	P		0	0	0	0
	08/21/1995		Stream	G		0	0	4,000	0
		David Owen	Mouth	G		0	0	15,000	0
			Bay	G		0	0	0	0
	09/01/1995		Stream	E		0	0	8,000	0
		David Owen	Mouth	E		0	0	7,000	0
			Bay	E		0	0	0	0
Alexander Point, 275-505									
	09/01/1995		Stream	E		0	0	16,000	0
		David Owen	Mouth	E		0	0	20,000	0
			Bay	E		0	0	0	0

-Continued-

Table 48. (page 41 of 41)

Stream	Date	Observer	Location	Visi- bility	Species					Observer Remarks
					Chinook	Sockeye	Coho	Pink	Chum	
Kametolook River, 275-600										
	07/13/1995		Stream	F		0	0	0	0	
		David Owen	Mouth	F		0	0	0	0	
			Bay	F		0	0	0	0	
	07/24/1995		Stream	G		0	0	0	0	
		David Owen	Mouth	G		0	0	0	0	
			Bay	G		0	0	0	0	
	08/08/1995		Stream	P		0	0	0	0	
		David Owen	Mouth	P		0	0	0	0	
			Bay	P		0	0	0	0	
	08/21/1995		Stream	G		0	0	1,000	0	
		David Owen	Mouth	G		0	0	0	0	
			Bay	G		0	0	0	0	
	09/01/1995		Stream	E		0	0	8,000	0	
		David Owen	Mouth	E		0	0	0	0	
			Bay	E		0	0	0	0	
Kametolook River (n), 275-601										
	07/13/1995		Stream	F		0	0	0	0	
		David Owen	Mouth	F		0	0	0	0	
			Bay	F		0	0	0	0	
	07/24/1995		Stream	G		0	0	0	0	
		David Owen	Mouth	G		0	0	0	0	
			Bay	G		0	0	0	0	
	08/21/1995		Stream	G		0	0	3,000	100	
		David Owen	Mouth	G		0	0	0	0	
			Bay	G		0	0	0	0	
	09/01/1995		Stream	E		0	0	13,000	0	
		David Owen	Mouth	E		0	0	0	0	
			Bay	E		0	0	0	0	

Table 49. Pink and chum salmon escapement estimates (in thousands of fish) for select Chignik Management Area streams, 1953-1995 . ^{a,b}

Year	Thompson Valley 272-204		Hook Bay 272-302		Cape Kumlik 272-501		Bear Cr. 272-505	
	Pink	Chum	Pink	Chum	Pink	Chum	Pink	Chum
1953	25.3	0.0	13.0	6.3			0.0	0.7
1954	28.2	4.5	14.3	5.3			0.2	0.2
1955	115.0	3.0	78.0	0.0			1.0	0.0
1956								
1957								
1958								
1959								
1960								
1961								
1962	7.0	0.0	18.9	4.1	7.0	0.0	0.0	12.4
1963	23.3	0.0	33.0	7.5	23.0	0.0	0.0	9.5
1964	4.1	0.0	42.0	1.2	8.7	0.0	0.0	8.8
1965	9.4	0.0	23.3	2.1	13.7	0.0	0.0	8.5
1966	4.1	0.0	10.0	0.5	3.8	0.0	0.0	4.3
1967	2.0	0.4	7.3	2.5	5.2	0.0	0.0	8.0
1968			5.0	0.0			0.0	2.7
1969	19.0	0.0	30.0	0.0			0.0	4.5
1970	12.0	0.0	11.0	1.0	5.0	0.0	0.0	10.0
1971	7.5	0.0	13.0	8.0	51.0	0.0	0.0	10.0
1972	0.2	0.0	0.4	1.1	0.2	0.0	0.0	2.5
1973	2.3	0.2	4.9	4.7	40.0	0.0	0.0	4.0
1974	1.6	0.1	3.8	0.8	0.6	0.0	0.0	2.3
1975	10.2	0.0	1.3	6.0	17.8	0.0	0.0	1.5
1976	5.5	0.2	8.0	2.5	2.6	0.0	0.0	1.4
1977	29.4	0.0	22.6	2.0	124.0	0.0	0.5	2.6
1978	14.0	0.0	14.5	2.8	6.1	0.0	0.1	1.5
1979	35.5	1.0	42.7	11.0	153.0	0.0	0.0	5.0
1980	0.7	0.0	24.5	4.2	2.6	0.0	0.2	0.0
1981	6.5	0.5	13.9	9.0	36.2	0.0	0.1	0.0
1982	1.2	0.0	7.3	10.0	0.9	0.0	0.0	2.5
1983	2.3	0.0	0.2	0.3	0.0	0.0	2.0	7.9
1984	14.0	0.0	16.2	0.1	3.7	0.0	0.3	2.3
1985	0.0	0.0	2.0	0.0			0.0	7.2
1986	0.3	0.0	66.9	0.0	38.2	0.0	0.0	7.5
1987			9.5	0.3	46.9	0.3	0.0	12.0
1988	9.6	3.3	26.4	0.7	18.0	0.0	0.0	0.7
1989	16.6	3.7	45.5	10.2	63.0	0.0	0.0	3.6
1990	4.8	0.0	16.7	0.2	3.2	0.0	0.3	T
1991	0.0	0.0	0.0	0.0	109.7	0.0	0.0	0.9
1992	61.2	0.0	7.2	7.5	15.4	0.0	0.0	20.8
1993	0.0	19.0	26.2	9.3	82.0	0.0	0.0	1.4
1994	48.0	4.0	21.5	8.9	21.0	0.0	0.0	22.0
1995	8.3	0.0	61.4	0.6	252.4	0.0	6.0	10.1

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Table 49. (page 2 of 8)

Year	Rudys Cr. 272-509		North Fork 272-514		Aniakchak R. 272-605		Cape Agutka 272-606	
	Pink	Chum	Pink	Chum	Pink	Chum	Pink	Chum
1953	0.7	0.2	1.3	3.5	0.0	35.0	0.2	0.7
1954			55.0	4.6	100.0	37.2	3.9	1.5
1955	15.0	4.0	13.5	1.0	16.0	0.0	1.2	0.0
1956								
1957								
1958								
1959								
1960								
1961								
1962	4.5	5.2	34.0	0.8	126.0	25.0	17.6	0.5
1963	0.0	12.0	9.7	1.8	6.0	14.6	0.4	0.0
1964	0.5	5.0	68.0	3.0	175.0	82.5	11.0	1.1
1965	0.0	1.1	8.7	2.0	10.8	4.0	5.1	0.1
1966	2.0	3.0	2.0		90.8	9.0	7.7	0.2
1967	1.0	3.0	20.0	1.1	2.0	10.5	1.1	0.1
1968	2.0	7.0	26.0	0.0	85.0	10.0	22.3	0.0
1969	0.2	1.0	5.2	4.0	0.1	0.5	4.6	2.0
1970	0.0	3.0	24.0	8.0	40.0	30.5	10.0	2.0
1971	0.0	1.3	0.0	4.5	0.0	11.5	2.0	3.0
1972	0.2	1.7	1.7	6.9	1.8	7.1	2.5	1.5
1973	0.0	1.2	2.8	1.5	2.7	4.0	1.5	1.8
1974	0.8	4.2	2.5	4.2	29.8	25.7	1.6	0.0
1975	0.0	1.8	0.4	3.7	2.4	5.5	1.9	0.2
1976	6.2	3.7	17.5	7.9	165.0	34.0	5.9	0.8
1977	6.3	0.9	6.6	2.3	3.0	14.8	1.0	0.1
1978	4.0	2.2	46.0	6.9	215.5	23.2	8.0	0.2
1979	12.0	7.7	12.7	5.6	0.0	0.2	13.0	1.5
1980	9.3	0.0	38.5	29.5	40.0	43.0	20.0	5.5
1981	0.7	0.1	15.8	16.5	2.7	32.0	5.8	0.0
1982	0.2	8.7	19.0	3.5	130.0	47.0	21.0	0.0
1983	0.0	1.3	4.1	1.3	1.0	3.1	0.1	0.0
1984	4.5	5.0	32.4	17.4	56.4	47.0	17.2	1.2
1985	0.0	0.0	4.7	1.3	0.0	0.0	0.0	0.0
1986	38.0	10.9	34.3	5.0	1.5	0.5	65.0	0.4
1987	0.0	0.0	8.8	4.0	2.5	0.3	4.2	0.3
1988	34.9	16.6	48.5	17.0	95.1	17.4	84.4	0.0
1989	7.3	0.4	23.0	1.2	5.0	2.5	1.8	0.0
1990	8.0	1.3	40.9	0.7	19.7	11.6	46.5	0.0
1991	0.0	7.4	2.1	2.9	0.0	7.6	4.1	0.0
1992	15.0	48.2	42.3	59.7	96.6	53.8	161.9	16.8
1993	3.7	0.0	24.5	8.0	0.0	7.8	53.0	T
1994	4.0	35.0	31.0	5.2	60.0	40.0	35.0	0.0
1995	49.0	2.5	84.5	15.0	70.0	50.0	91.1	0.0

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Table 49. (page 3 of 8)

Year	Main Cr. 272-702		Northeast Cr. 272-703		Yantarni R. 272-721		Ocean Beach 272-801	
	Pink	Chum	Pink	Chum	Pink	Chum	Pink	Chum
1953	0.2	17.0	3.5	2.0				
1954	6.9	21.5	1.1	0.8				
1955	25.2	0.8			7.5	7.0	8.0	3.0
1956								
1957								
1958								
1959								
1960								
1961								
1962	33.0	3.6	1.6	2.5	52.5	0.1	45.0	2.0
1963	16.0	5.8	5.0	0.9	16.0	0.3	3.4	0.0
1964	40.5		2.3	3.0	42.0	21.0	34.6	10.1
1965	5.0	4.8	2.3	6.0	4.0	7.6	0.4	1.0
1966	3.0	0.0	1.3	0.2	18.5	5.0	11.0	3.3
1967	16.5	2.0	2.0	0.2				
1968	28.0	8.0	7.7	1.0	25.0	6.5	26.5	0.0
1969	3.0	15.0	7.0	4.5	1.5	11.0	6.0	3.5
1970	13.0	7.0	7.0	6.0	1.5	11.5	7.5	5.0
1971	1.0	20.0	2.0	5.5	0.0	18.0	0.0	3.5
1972	2.0	8.0	1.7	0.5	2.1	21.0	0.5	4.6
1973	1.0	7.0	1.1	3.1	0.3	6.5	0.6	1.7
1974	6.6	6.3	3.0	2.0	3.7	3.8	2.3	2.2
1975	4.7	8.0	0.4	0.7	0.3	1.6	0.8	0.2
1976	5.5	8.5	3.8	2.0	5.8	12.5	4.2	3.0
1977	4.5	3.5	10.0	0.8	1.9	3.5	1.1	0.4
1978	5.6	7.6	4.4	4.6	7.9	3.3	7.1	0.5
1979	13.5	14.0	7.0	7.5	14.0	9.5	1.5	0.0
1980	53.5	17.0	4.8	3.0	60.0	11.0	27.6	0.0
1981	6.3	16.3	5.9	2.5	13.5	18.2	10.5	5.5
1982	36.0	12.3	6.2	3.7	8.5	25.5	0.0	14.5
1983	9.2	6.7	3.2	4.7	3.6	13.4	3.1	1.5
1984	15.7	14.5	7.0	4.3	26.5	18.7	19.0	13.2
1985	13.7	4.0	9.0	0.0	67.8	0.7	9.9	0.0
1986	85.0	0.0	13.6	0.0	3.1	0.3	1.8	0.2
1987	14.3	1.5	7.5	0.4	18.0	3.0	13.0	2.7
1988	43.6	5.5	41.4	10.6	33.7	30.3	32.8	12.8
1989	53.0	3.2	17.0	4.0	10.9	3.4	10.9	4.8
1990	54.3	5.7	80.3	13.3	23.6	9.3	45.0	1.3
1991	0.0	8.4	1.9	8.8	5.3	1.7	0.0	2.8
1992	30.3	45.2	31.9	50.5	14.9	26.2	15.6	7.1
1993	26.5	14.0	24.2	0.0			10.0	23.0
1994	30.0	0.5	44.4	6.1	57.3	4.6	42.5	10.0
1995	123.3	9.0	98.7	7.4	54.0	10.0	74.8	3.8

-Continued-

Table 49. (page 4 of 8)

Year	Nakalilok R. 272-804		Chiginagak 272-902		Chiginagak R. 272-903		Chiginagak 272-904	
	Pink	Chum	Pink	Chum	Pink	Chum	Pink	Chum
1953								
1954								
1955	3.0	0.5			0.0	15.9		
1956								
1957								
1958								
1959								
1960								
1961								
1962	22.0	0.1	16.0	0.0	0.3	34.3	20.1	0.0
1963	10.4	0.1	1.2	0.0	0.0	15.0	43.0	0.0
1964	89.0	3.0	20.0	0.0	6.0	24.4	41.4	0.0
1965	0.5	9.0	0.4	0.0	0.0	13.8	12.4	0.1
1966	12.5	0.0	5.8	0.0	0.0	33.2	16.0	0.0
1967	3.5	18.5	0.5	0.1	0.0	27.0	12.4	0.0
1968	7.4	2.0	21.0	0.0	2.0	29.5	20.0	0.0
1969	8.0	3.5	1.3	0.0		20.0	6.0	0.0
1970	10.0	6.5	11.0	0.0	0.0	31.0	4.0	0.0
1971	1.0	44.0	2.8	0.0	0.0	86.0	1.1	0.0
1972	0.0	6.0	0.1	0.3	1.0	33.0	0.1	0.1
1973	0.5	5.2	0.3	0.0	0.2	28.3	0.5	0.0
1974	2.2	4.8	0.2	0.2	8.5	28.5	0.9	0.0
1975	3.0	4.8	0.5	0.5	2.9	20.3	0.8	0.0
1976	2.4	14.2	0.7	0.0	0.7	35.0	2.2	0.0
1977	3.8	4.9	2.7	0.0	1.8	19.4	3.8	0.0
1978	8.1	4.2	4.4	0.4	1.3	9.1	3.5	0.0
1979	12.0	2.9	11.0	15.0	0.4	24.3	7.2	0.0
1980	25.6	14.0	17.9	0.0	16.3	5.7	14.5	0.0
1981	6.5	8.0	5.0	0.0	6.0	23.4	6.9	0.0
1982	4.0	12.3	2.2	0.0	2.0	18.5	1.7	0.4
1983	4.8	4.2	0.7	0.0	1.8	9.6	1.9	0.0
1984	15.0	36.5	16.6	0.0	6.9	53.8	19.5	3.0
1985	27.0	0.0	0.0	0.0	1.0	0.0	5.0	0.0
1986	12.7	1.0	42.3	0.0	21.1	3.3	8.9	0.0
1987	1.4	3.8	3.2	0.4	67.5	15.7	11.0	3.3
1988	16.8	8.0	33.7	0.0	12.6	13.2	40.0	30.0
1989	10.6	4.1	22.0	0.0	70.4	4.2	32.0	11.5
1990	47.0	6.3	19.2	0.0	63.0	9.8	18.7	5.0
1991	0.0	4.1	18.6	0.0	0.3	0.0	0.5	5.5
1992	16.7	27.3	27.6	0.6	0.0	4.5	0.1	0.0
1993	30.0	33.0	35.3	0.0	59.8	10.0	59.3	10.0
1994	71.4	6.1	35.0	0.0	35.0	3.0	109.0	5.0
1995	101.0	1.9	63.0	5.0	0.0	0.3	119.1	0.0

-Continued-

Table 49. (page 5 of 8)

Year	Chiginagak 272-905		Agripina R. 272-961		Glacier Cr. 272-962		Kilokak 272-963	
	Pink	Chum	Pink	Chum	Pink	Chum	Pink	Chum
1953								
1954								
1955					0.0	0.0		
1956								
1957								
1958								
1959								
1960								
1961								
1962	17.1	0.0	12.0	3.0	0.5	3.0	16.2	0.0
1963	1.0	0.0	19.2	0.1	0.0	10.0	0.8	0.0
1964	100.0	0.3	8.5	0.0	0.5	6.0	14.2	0.0
1965	1.2	0.0	20.1	0.0	0.0	1.3	0.1	0.0
1966	90.5	0.0					24.5	0.0
1967	5.8	1.8	7.3	0.5	0.0	5.6	0.3	0.0
1968	53.0	0.0	12.0	0.0	0.0	0.2	65.6	0.0
1969	2.4	0.0	2.5	0.0	0.0	2.0	0.2	0.0
1970	24.0	0.0	15.5	0.0	0.0	5.0	55.0	0.0
1971	4.3	2.0	6.6	0.0	0.0	6.0	0.0	0.0
1972	2.4	0.0	1.6	0.0	0.0	4.6	2.1	0.0
1973	1.0	0.0	4.2	0.5	0.0	3.0	0.1	0.0
1974	1.9	0.0	1.2	0.2	0.0	0.9	0.3	0.0
1975	2.1	0.2	2.7	0.0	0.2	0.5	0.6	0.0
1976	20.1	0.4	4.9	0.0	0.0	1.8	4.9	0.0
1977	22.0	1.3	4.3	0.0	0.0	1.0	0.5	0.0
1978	41.0	0.4	7.4	0.1	0.6	1.1	5.9	0.0
1979	61.1	0.0	23.5	0.0	0.0	1.6	1.1	0.0
1980	38.5	0.0	14.3	0.0	5.2	0.7	61.0	0.0
1981	48.0	0.1	13.4	0.0	0.0	0.6	0.3	0.0
1982	34.1	0.0	33.0	0.0	0.0	1.1	20.0	0.0
1983	3.6	5.0	5.0	0.0	1.3	0.2	0.3	0.0
1984	117.2	0.2	39.8	0.0	1.0	3.2	75.8	0.0
1985	17.0	0.0	10.0	0.0	0.0	0.0	0.0	0.0
1986	85.0	0.1	0.0	0.0	0.0	0.0	175.0	0.0
1987	20.0	0.3	1.0	0.0	6.2	0.0	0.0	0.0
1988	52.9	14.4	78.0	20.6	0.3	0.0	137.8	0.0
1989	89.0	4.0	53.0	0.0	0.3	0.1	10.5	0.0
1990	84.8	2.4	33.3	0.0	1.1	0.2	83.4	0.0
1991	5.2	5.0	9.6	5.0	0.2	1.2	9.7	0.0
1992	137.8	5.1	180.5	5.7	10.4	0.0	157.8	0.0
1993	87.3	10.0	47.2	0.0	0.0	0.0	105.7	0.0
1994	45.0	6.0	65.0	25.0	3.0	0.1	70.0	0.0
1995	8.5	0.0	100.0	4.7	9.0	0.2	29.0	0.0

-Continued-

Table 49. (page 6 of 8)

Year	Coal Cape 273-702		Ivan River 273-722		Foot Bay 273-802		Spoon Cr. 273-823	
	Pink	Chum	Pink	Chum	Pink	Chum	Pink	Chum
1953							1.0	1.5
1954								
1955							15.0	0.0
1956								
1957								
1958								
1959								
1960								
1961								
1962	129.0	12.0	85.0	36.0	13.3	1.0	10.6	2.0
1963	127.5	0.0	124.0	4.5	11.0	1.0	3.5	0.0
1964	60.0	10.0	65.5		12.0	0.9	13.2	0.0
1965	48.0	5.9	89.1	0.0	5.3	0.0	1.4	0.0
1966	9.7	2.0	94.5	1.0	18.4	0.2	15.5	0.0
1967	9.0	1.0	35.0	7.0	4.7	0.0	2.4	0.0
1968	39.0		85.0	0.0	14.2	0.0	7.8	0.0
1969	77.0	0.0	302.0	0.0	14.2	0.1	6.5	0.0
1970	69.0	0.0	103.0	17.0	14.5	3.0	10.5	0.0
1971	8.0	0.0	205.0	90.0	30.0	5.2	7.0	0.0
1972	2.5	4.5	4.4	13.0	0.6	0.6	0.2	0.0
1973	1.6	1.0	43.8	17.2	7.5	0.3	0.8	0.2
1974	62.8	5.1	3.9	22.3	2.1	0.3	1.7	0.0
1975	21.0	4.5	96.0	24.5	9.8	0.0	4.5	0.0
1976	70.3	13.4	17.3	22.1	7.0	1.1	9.3	1.9
1977	78.5	0.0	236.0	36.0	18.3	0.8	5.7	0.1
1978	218.5	0.1	73.7	0.8	16.6	2.0	7.5	0.1
1979	50.2	2.0	90.0	32.0	9.6	0.4	7.1	1.0
1980	53.0	12.5	51.0	22.1	3.5	1.0	4.5	0.9
1981	84.9	3.0	117.0	28.0	10.0	4.6	6.7	0.8
1982	30.5	3.3	21.0	16.3	1.4	2.8	0.1	0.4
1983	17.8	0.5	12.2	7.2	1.2	1.1	0.8	0.0
1984	60.2	6.5	103.0	40.0	6.0	1.8	0.3	0.1
1985	3.5	0.5	49.6	23.3	5.9	1.7	0.3	0.0
1986	22.0	0.0	10.1	0.0	4.9	0.0	0.5	0.0
1987	13.4	0.4	14.8	2.4	6.6	1.0	0.0	0.0
1988	135.6	10.6	57.0	5.6	13.0	0.9	3.1	0.3
1989	2.9	1.5	32.0	0.8	10.8	0.6	1.7	0.1
1990	7.5	0.8	23.1	14.3	8.2	0.2	0.8	2.0
1991	53.6	0.0	42.2	3.1	0.0	4.9	0.0	1.7
1992	0.0	0.3	31.4	45.1	1.1	0.0	0.8	0.2
1993	16.1	0.0	17.3	1.7	6.1	0.0	0.3	0.3
1994	17.0	7.5	35.5	0.0	7.0	0.2	0.5	0.5
1995	174.1	0.1	161.2	1.0	19.0	0.0	10.1	0.0

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Table 49. (page 7 of 8)

Year	Portage 273-842		Seal Bay 273-843		Kupreanof 275-401		Smokey Hollow 275-402	
	Pink	Chum	Pink	Chum	Pink	Chum	Pink	Chum
1953	5.3	0.5	2.0	2.0				
1954								
1955	0.0	20.0	0.0	0.6				
1956								
1957								
1958								
1959								
1960								
1961								
1962	0.0	23.8	0.0	1.8	12.2	0.0	3.6	3.9
1963	27.0	4.4	6.0	0.0	3.5	0.0	1.5	2.0
1964	0.0	20.4	1.3	0.0	13.0	1.1	0.8	17.0
1965	1.7	8.3	3.3	0.0	3.0	0.0	0.0	0.5
1966	24.4	8.9	4.0	0.0			0.0	7.4
1967	28.5	15.0	6.0	0.5	6.7	0.0	0.0	0.3
1968	3.3	5.0	2.5	0.0	14.0	0.0	0.0	0.9
1969	0.1	27.5	7.5	0.0	6.8	0.2	0.0	0.2
1970	9.0	27.6	5.2	0.0	11.0	0.0	0.0	2.5
1971	10.2	60.1	5.0	10.1	3.5	0.0	0.0	1.5
1972	0.1	21.4	0.0	11.1	1.0	0.5	0.0	2.0
1973	2.9	18.1	2.0	0.1	0.2	0.5	0.2	0.6
1974	0.0	8.7	1.2	1.0	1.2	0.5	0.4	0.8
1975	0.4	9.2	5.3	2.3	1.0	0.1	0.1	0.1
1976	0.9	8.5	0.6	4.6	4.0	0.0	0.6	0.8
1977	5.0	20.5	3.1	5.2	5.1	0.0	2.3	1.6
1978	4.1	19.0	1.5	1.4	16.1	0.0	0.5	0.5
1979	17.7	4.5	0.2	0.6	28.0	0.0	0.6	0.4
1980	10.2	18.5	1.0	0.5	11.6	0.0	0.5	0.3
1981	6.5	33.3	9.0	0.0	22.5	0.1	1.5	0.0
1982	0.0	6.3	0.0	3.5	5.5	0.0	0.0	0.0
1983	0.3	7.3	0.8	0.0	3.5	0.0	0.2	2.6
1984	1.0	14.6	4.6	5.5	5.2	0.0	0.3	1.4
1985	0.0	9.1	7.3	0.0			0.2	0.0
1986	0.7	5.0	0.0	0.1			0.5	0.1
1987	0.0	10.2	0.5	3.9			1.4	0.1
1988	4.0	6.1	0.0	0.8	5.1	0.0	0.9	1.0
1989	1.2	1.6	1.7	0.8	4.2	0.1	9.4	0.1
1990	0.9	8.9	0.0	2.2	13.5	0.0	1.3	1.5
1991	0.0	22.0	0.0	3.4	7.1	0.0	0.0	10.0
1992	2.5	5.3	1.5	2.0	28.8	0.0	1.2	0.8
1993	0.0	10.6	1.0	1.3	10.0	0.0	0.0	7.3
1994	17.3	6.0	5.0	3.0	9.4	0.0	1.6	3.5
1995	41.8	33.9	27.0	0.1	26.0	0.5	23.7	1.5

-Continued-

Table 49. (page 8 of 8)

Year	Wasco's Cr. 275-404		Ivanof River 275-406		Humpback Cr. 275-502	
	Pink	Chum	Pink	Chum	Pink	Chum
1953						
1954						
1955						
1956						
1957						
1958						
1959						
1960						
1961						
1962	23.0	0.0	48.5	2.5	64.5	3.0
1963	1.0	0.0	128.0	4.0	26.4	0.4
1964	0.0	6.5	15.0	0.8	40.7	0.2
1965	2.0	0.0	61.4	5.5	13.8	0.0
1966	10.5	0.0	39.5	9.0	30.0	0.0
1967	2.0	0.0	98.5	3.0	36.7	0.0
1968	0.3	0.0	60.0	0.5	52.3	0.0
1969	4.0	0.0	122.4	0.5	75.0	0.0
1970	2.5	0.0	51.0	10.0	31.0	0.0
1971	3.0	4.0	25.0	21.0	13.4	1.5
1972	0.3	0.0	6.3	7.8	0.5	1.0
1973	0.0	0.0	24.7	8.2	6.1	0.6
1974	6.3	1.9	41.9	8.1	10.2	0.7
1975	0.9	0.0	33.4	15.0	9.2	3.5
1976	6.2	0.2	55.0	6.8	20.3	0.7
1977	1.6	0.5	51.8	9.0	48.2	1.2
1978	9.7	0.0	71.5	4.2	51.0	0.2
1979	2.0	0.1	89.0	7.1	59.0	5.0
1980	0.0	3.0	40.5	22.7	18.7	3.1
1981	0.0	0.2	39.9	17.0	46.5	2.0
1982	0.1	2.3	2.7	9.4	4.8	11.0
1983	2.0	0.0	34.3	5.6	17.8	0.0
1984	14.6	1.4	61.0	42.5	18.3	0.7
1985	0.3	0.0	181.6	10.6	36.8	0.3
1986	10.0	0.0	150.0	7.6	12.0	0.0
1987	11.9	0.1	24.7	6.9	15.5	0.8
1988	14.0	1.1	126.0	30.6	30.8	0.4
1989	3.8	0.3	161.0	4.0	51.0	0.5
1990	0.5	4.4	47.3	33.7	7.4	0.5
1991	0.0	0.1	118.3	332.9	28.8	0.0
1992	9.0	0.0	109.3	285.8	36.1	2.3
1993	0.0	1.0	230.2	22.7	96.9	4.8
1994	2.1	0.0	74.2	120.2	40.0	2.0
1995	14.0	3.4	234.2	128.0	195.7	0.7

^aEscapement from 1953-1984 are based on index estimates described by Shaul and Schwarz (1989) and from 1985-1995 estimates are based on area-under-the-curve methodology described by Johnson and Barrett (1988).

^bSeptember 10 was assumed to be last day of entry.

Table 50. Estimated subsistence harvests of salmon, Chignik Management Area, 1976 - 1995^a

Year	Number of Permits		Percentage Returned	Estimated Number Fished	Percentage Fished	Estimated Harvests					
	Issued	Returned				Chinook	Sockeye	Coho	Pink	Chum	Total
1976						100	6,000	1,500	500	150	8,250
1977						50	9,700	2,400	1,800	600	14,550
1978						50	6,000	500	2,100	600	9,250
1979						14	7,750	34	262	0	8,060
1980	82	37	45.1%	70	85.4%	6	12,475	32	478	169	13,160
1981	29	7	24.1%	18	62.1%	0	2,049	0	0	0	2,049
1982	59	15	25.4%	56	94.9%	3	8,532	12	2	0	8,548
1983	32	21	65.6%	27	82.8%	0	3,078	1,319	1,250	850	6,497
1984	77	64	83.1%	58	74.9%	23	8,747	464	330	204	9,768
1985	59	48	81.4%	49	83.1%	1	7,177	50	26	25	7,279
1986	74	38	51.4%	70	94.6%	4	10,347	205	98	77	10,730
1987	NA	NA	NA	NA	NA	10	7,021	278	204	261	7,774
1988	80	34	42.5%	77	96.3%	9	9,073	1,455	54	142	10,733
1989	68	23	33.8%	47	68.8%	24	7,552	384	81	147	8,187
1990	72	23	31.9%	62	86.1%	103	8,099	210	470	115	8,996
1991	95	58	61.1%	83	87.4%	42	11,483	13	275	81	11,893
1992	98	19	19.4%	86	87.5%	55	8,648	709	305	145	9,862
1993	202	141	69.8%	163	81.0%	122	14,710	3,765	1,265	642	20,503
1994	219	122	55.7%	160	73.0%	165	13,978	4,055	1,720	382	20,300
1995	111	95	85.6%	95	85.7%	98	9,563	1,191	723	150	11,725
Aver.	90	50	54.9%	75	82.6%	44	8,599	929	597	237	10,406

^a In 1993, the Division of Subsistence, ADF&G, obtained copies of all available subsistence permits for the Chignik Management Area from the Division of Commercial Fisheries archive in Kodiak. Permits issued prior to 1980 and for 1987 could not be located. All permit data were entered into a data base. The estimated harvests reported in this table differ slightly from that reported in earlier annual management reports for several reasons. There are small discrepancies in some years for the number of permits issued or returned. Estimated harvests in earlier annual management reports were based on a simple expansion from harvests reported on returned permits to the total number of permits issued. Harvest estimates in this table are based on the sum of expanded community harvest estimates, similar to the method used in the Bristol Bay and Alaska Peninsula Management Areas.

Since 1993, the Division of Subsistence has been responsible for permit data entry and harvest estimates for the Chignik Management Area. Increases in permits issued beginning in 1993, and consequently higher harvest estimates, reflect the use of local vendors to issue permits and post-season surveys by department staff and local research assistants.

Sources: Quimby and Owen 1994:90, for 1976 - 1979 and 1987; Division of Subsistence, ADF&G, Chignik Subsistence Salmon Permit Database, Anchorage, for the remaining years.

Table 51. Number of permits, landings, and salmon species harvested for personal use in the commercial salmon fishery in the Chignik Management Area, 1995.

Catch MM/DD	Permits	Landings	Chinook	Sockeye	Coho	Pink	Chum
24-Jun	4	4	13	0	0	0	0
25-Jun	1	1	3	0	0	0	0
3-Jul	5	6	124	0	0	0	0
4-Jul	2	2	4	0	0	0	0
5-Jul	4	4	15	0	0	0	0
6-Jul	8	8	20	0	0	0	0
7-Jul	2	2	6	0	0	0	0
8-Jul	1	1	4	0	0	0	0
9-Jul	2	2	7	0	0	0	0
10-Jul	4	4	10	0	0	0	0
14-Jul	2	2	3	0	0	0	0
15-Jul	3	3	0	0	554	0	0
16-Jul	1	1	3	0	0	0	0
17-Jul	2	2	0	0	297	0	0
20-Jul	3	3	4	0	0	0	0
22-Jul	4	4	11	0	0	0	0
23-Jul	1	1	1	0	0	0	0
24-Jul	2	2	3	0	0	0	0
25-Jul	1	1	1	0	0	0	0
28-Jul	1	1	0	0	62	0	0
Total	31	54	232	0	913	0	0

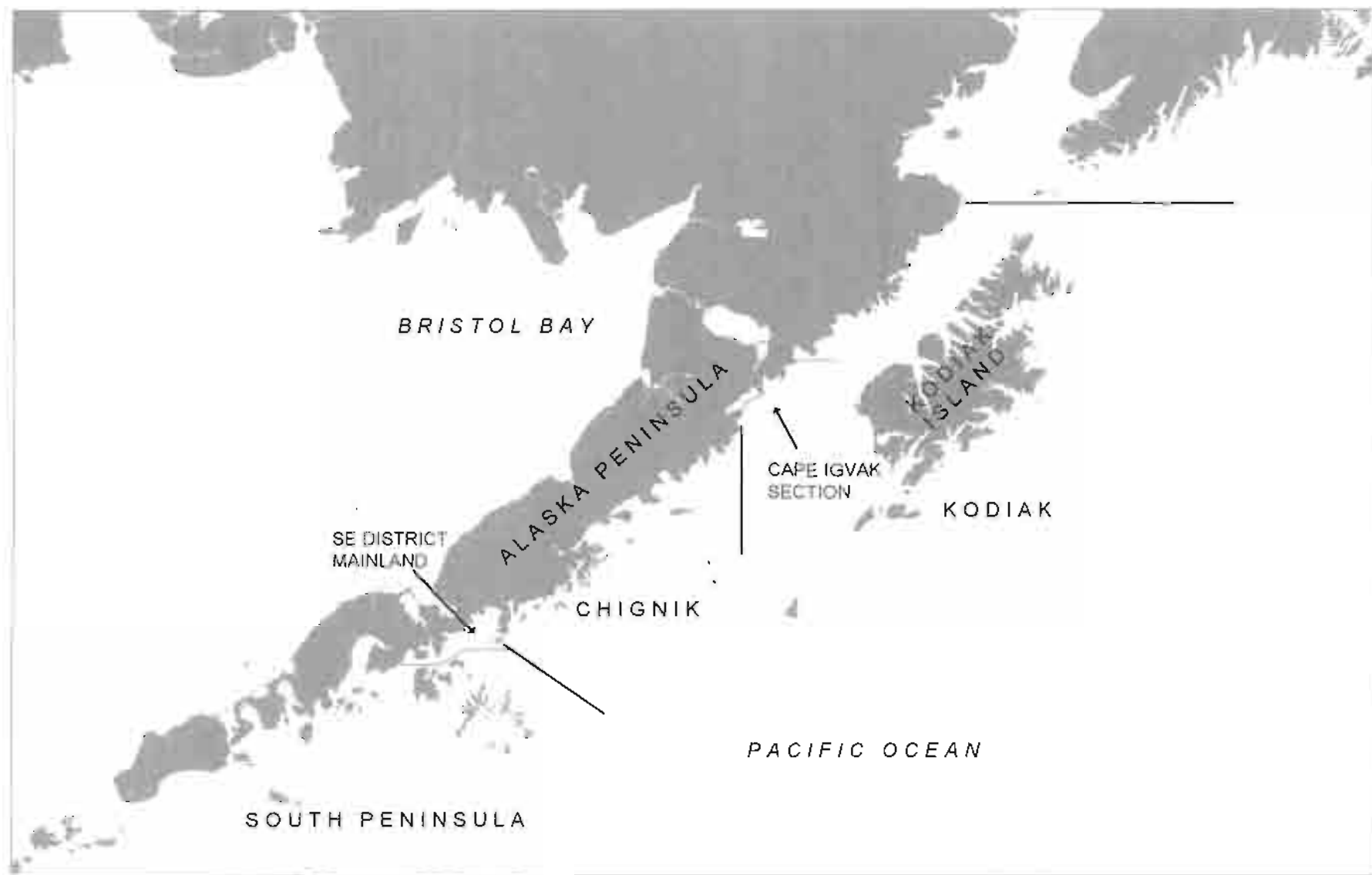


Figure 1. Map of the Alaska Peninsula illustrating the relative locations of the Chignik, Kodiak, and South Peninsula Management Areas.

CHIGNIK LAKE WATERSHED

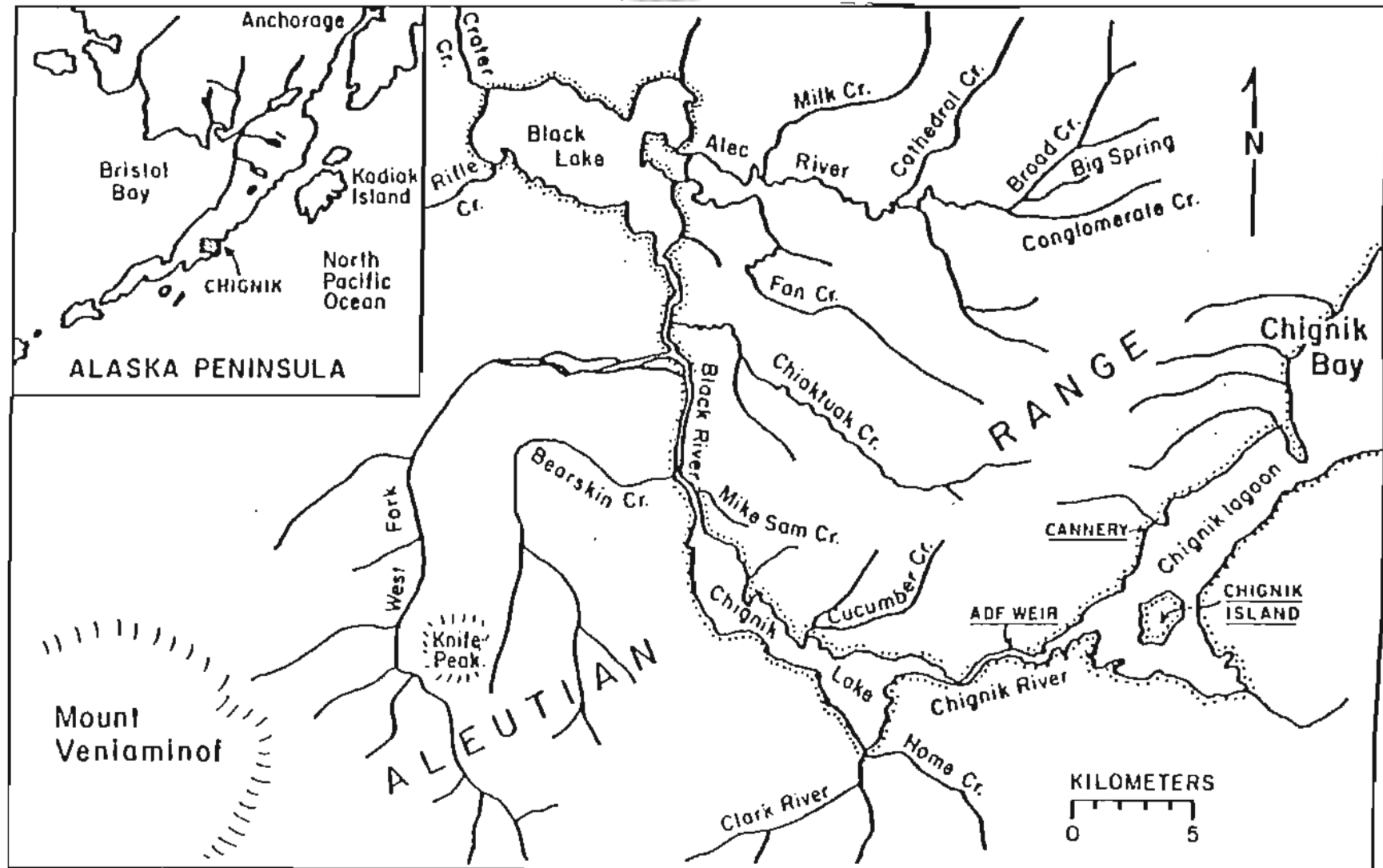


Figure 2. Map of the Chignik River watershed with inset of western Alaska.

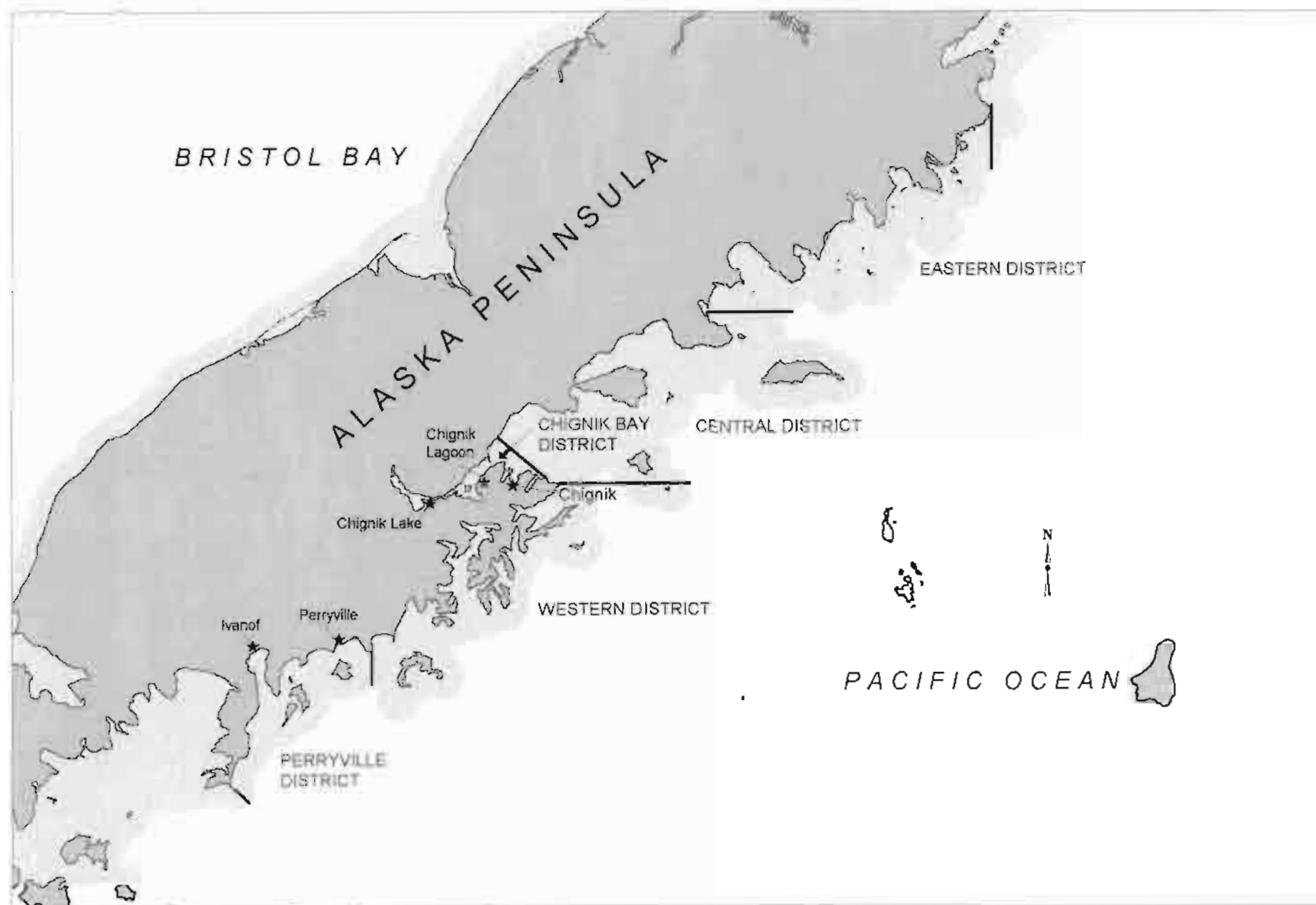


Figure 3. Map illustrating district boundaries and village locations within the Chignik Management Area.

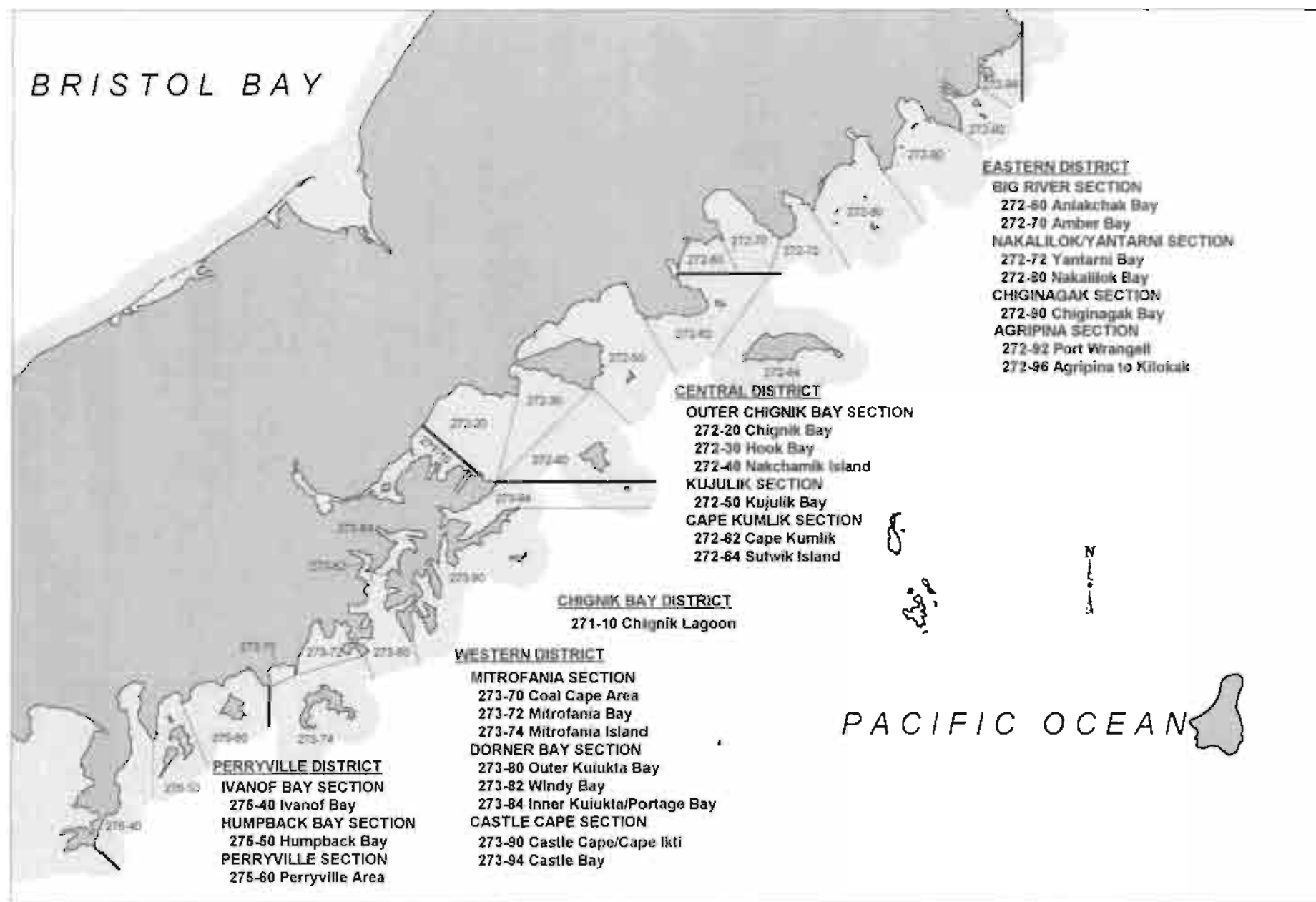


Figure 4. Map of Chignik Management Area illustrating district boundaries.

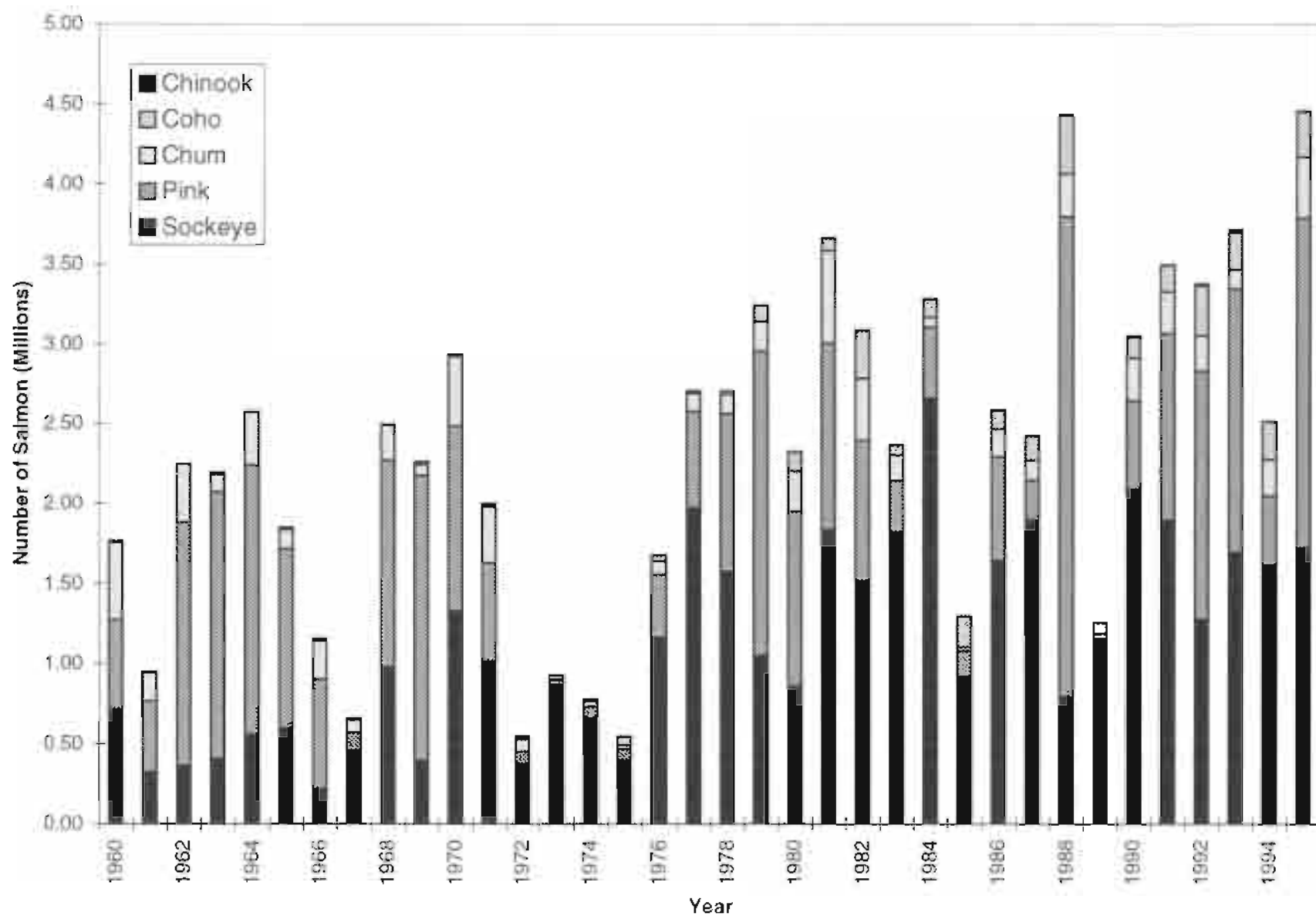


Figure 5. Total salmon harvests by species in the Chignik Management Area, 1960-1995.

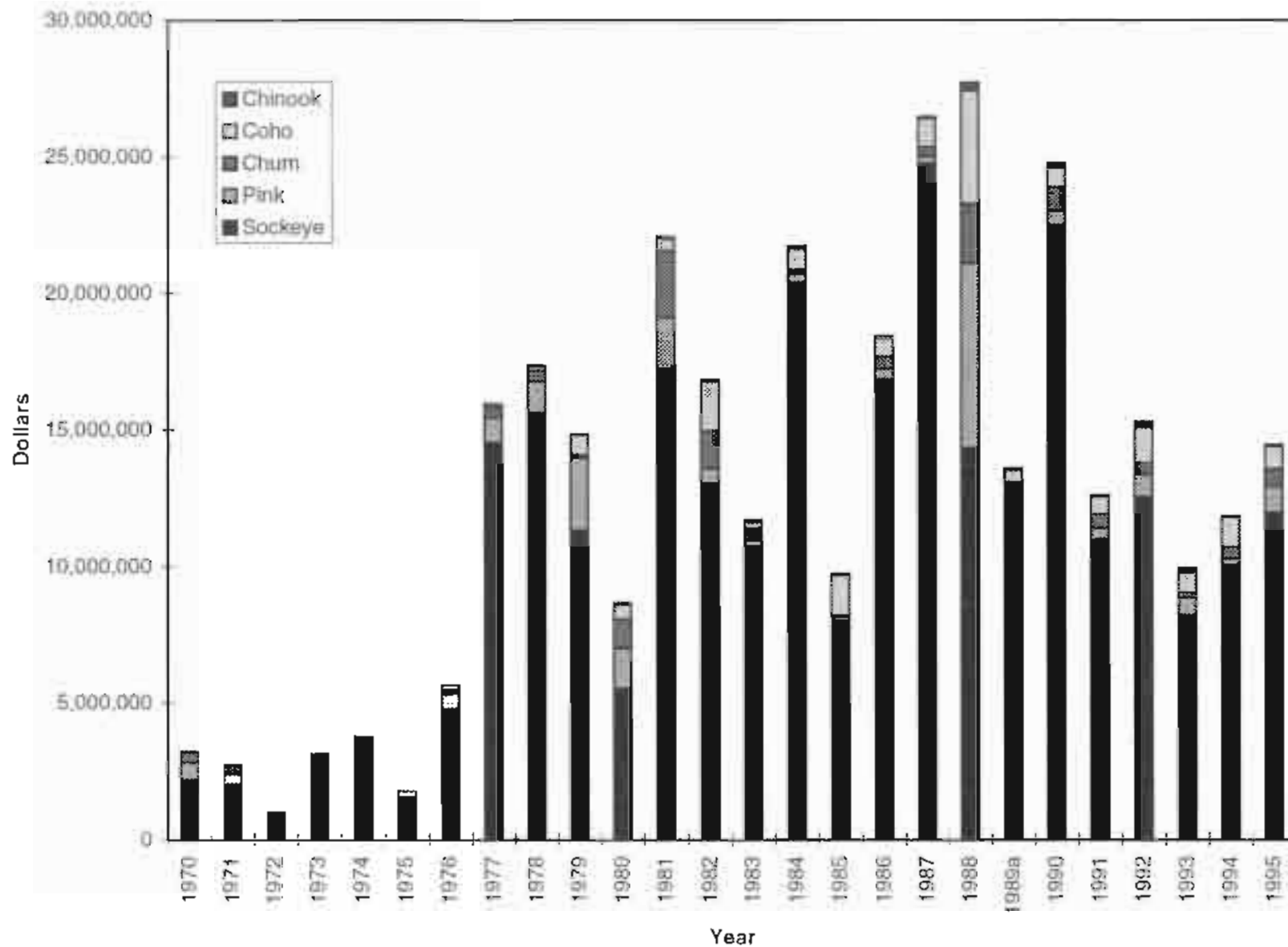


Figure 6. Exvessel value of the salmon harvest in the Chignik Management Area, 1970-1995.

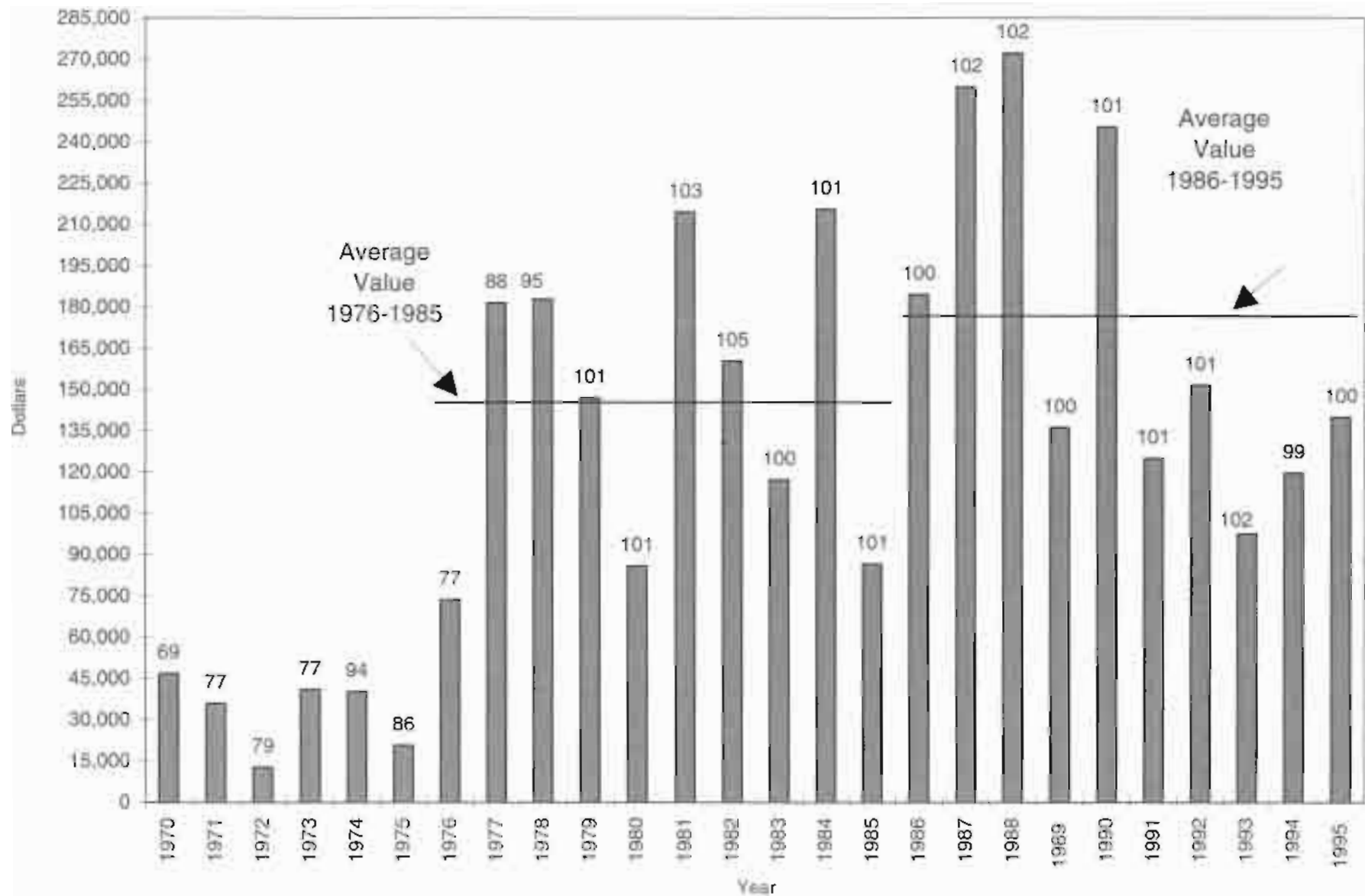


Figure 7. Average economic value of salmon per Chignik Management Area permit holder, 1970 - 1995. Number above bar represents permits fished that year.

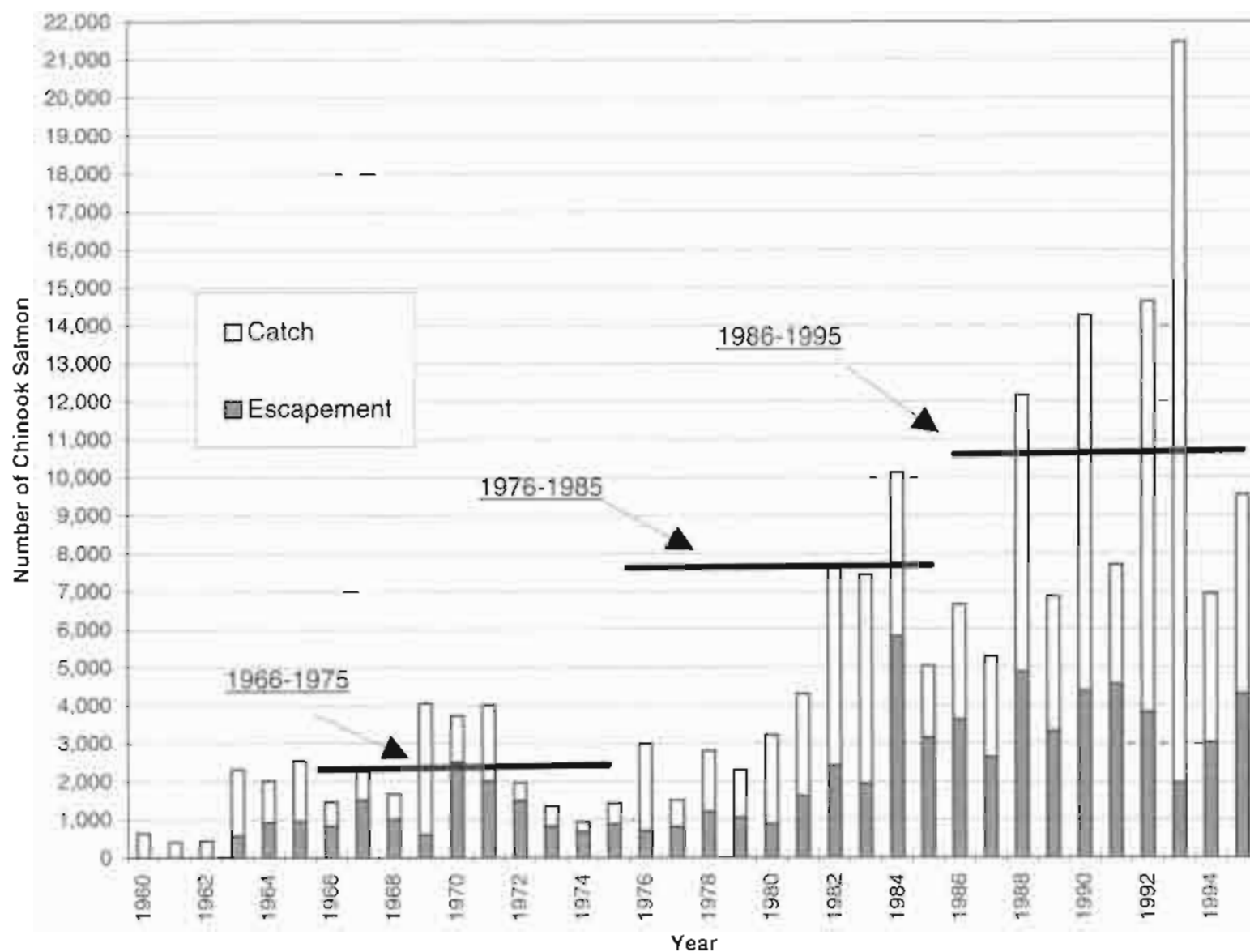


Figure 8. Chinook salmon catch and escapement in the Chignik Management Area, 1960-1995.

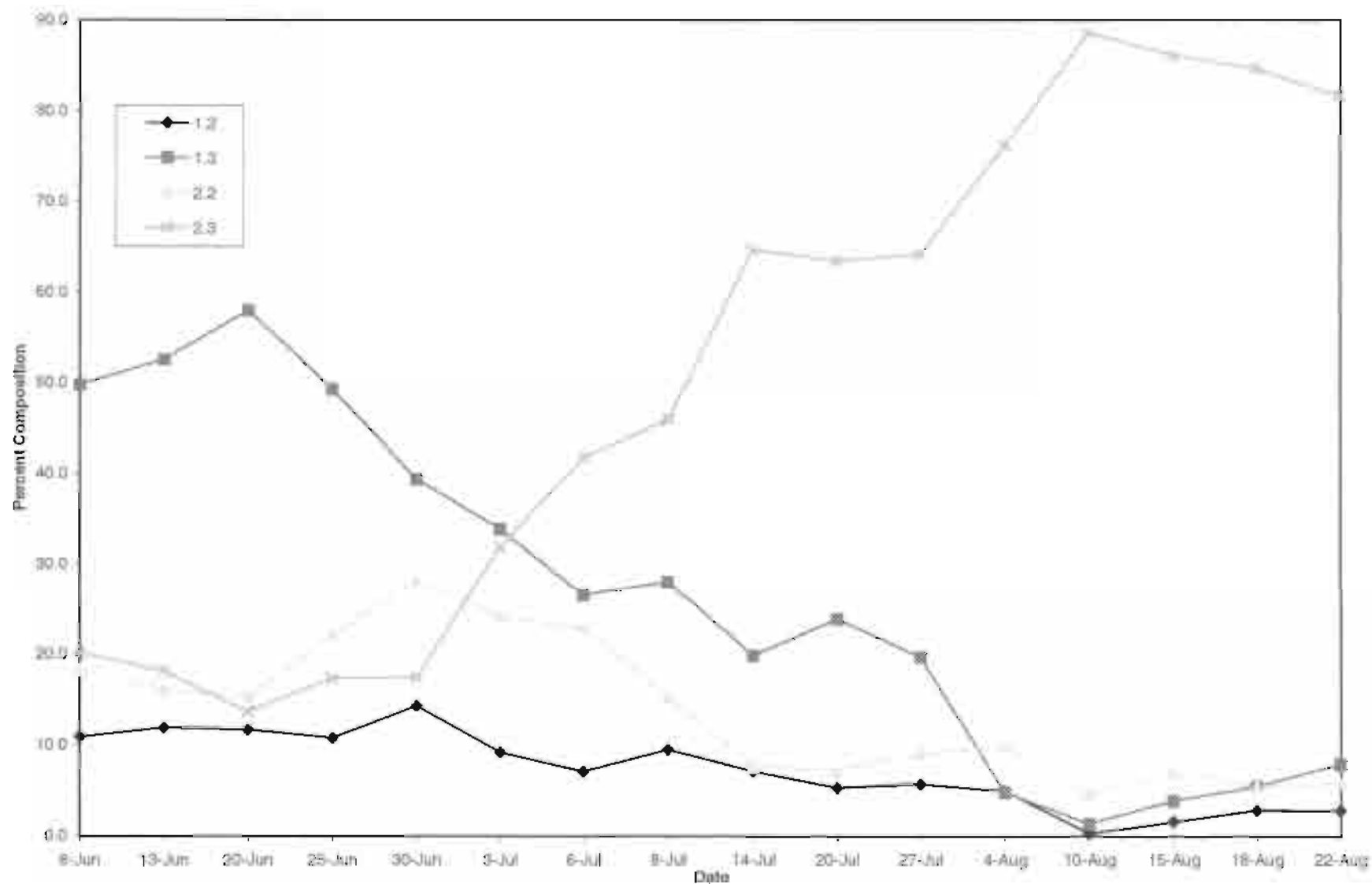


Figure 9. Age composition of sockeye salmon sampled in the Chignik Lagoon fishery, 1995.

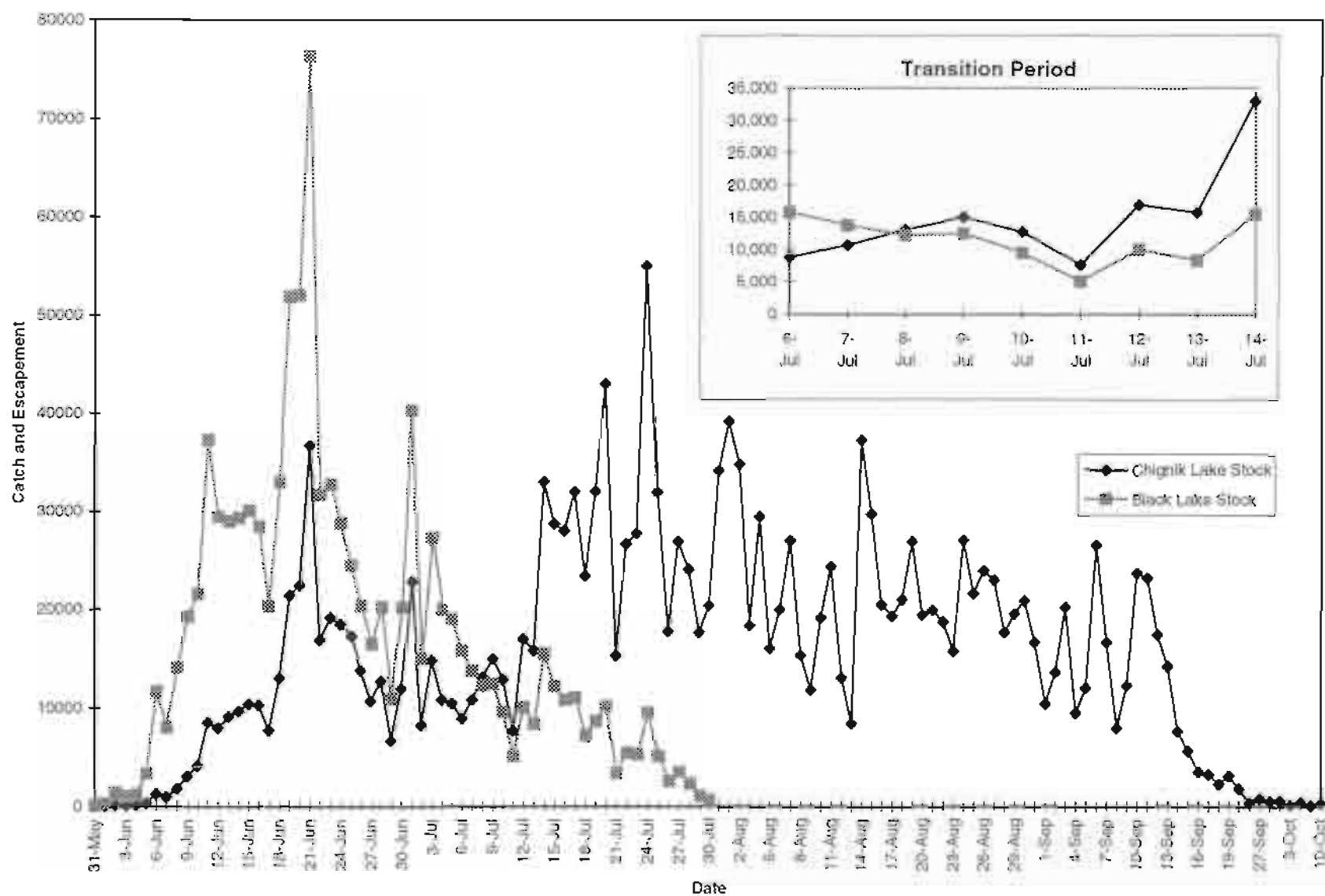


Figure 10. Daily sockeye salmon run by stock to the Chignik Lake system as estimated by scale pattern analysis, 1995.

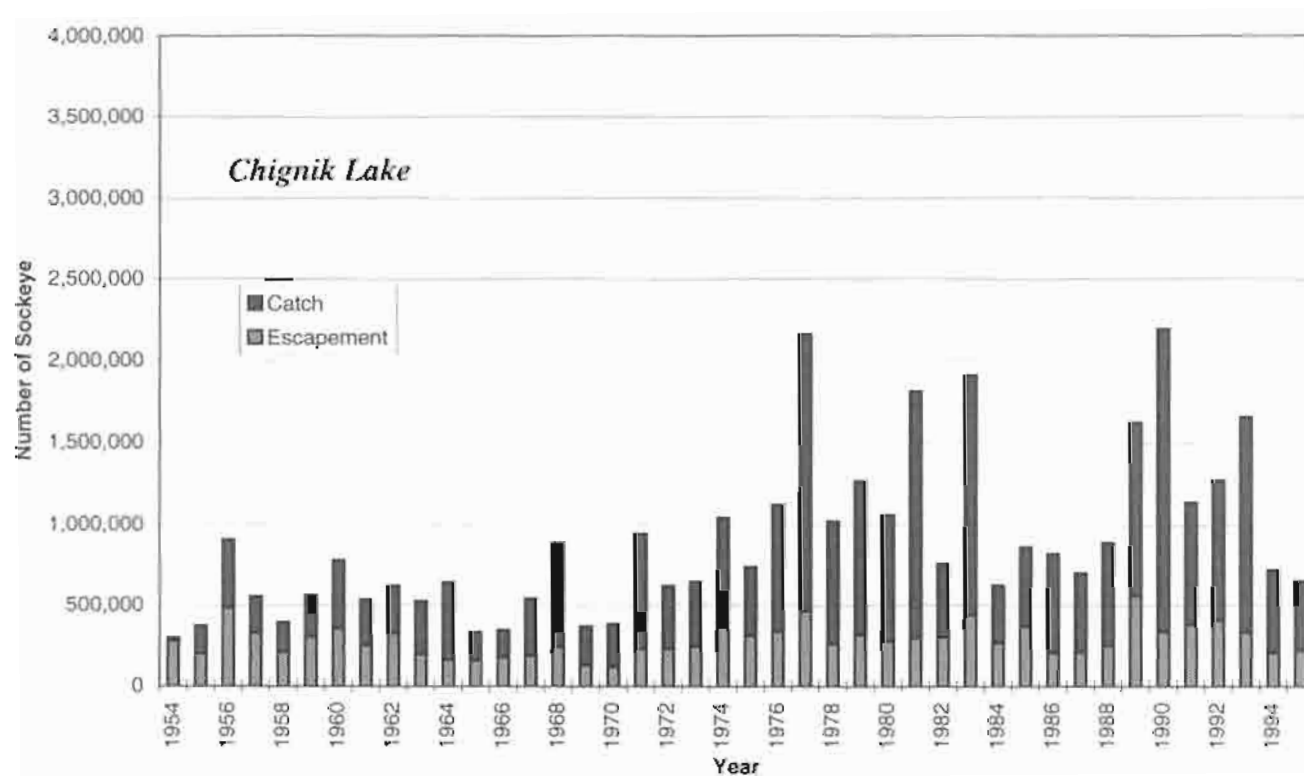
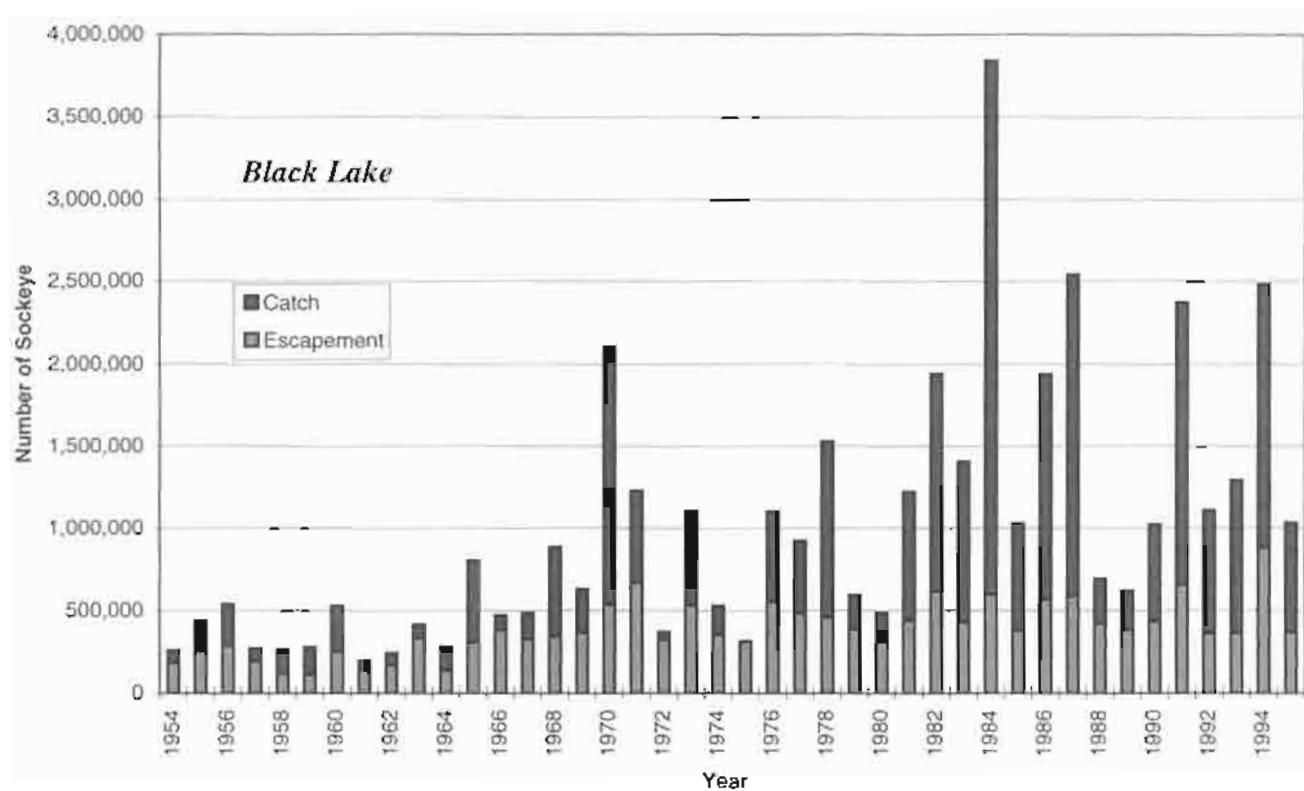


Figure 11. Black and Chignik Lake sockeye catch and escapement, 1954-1995.

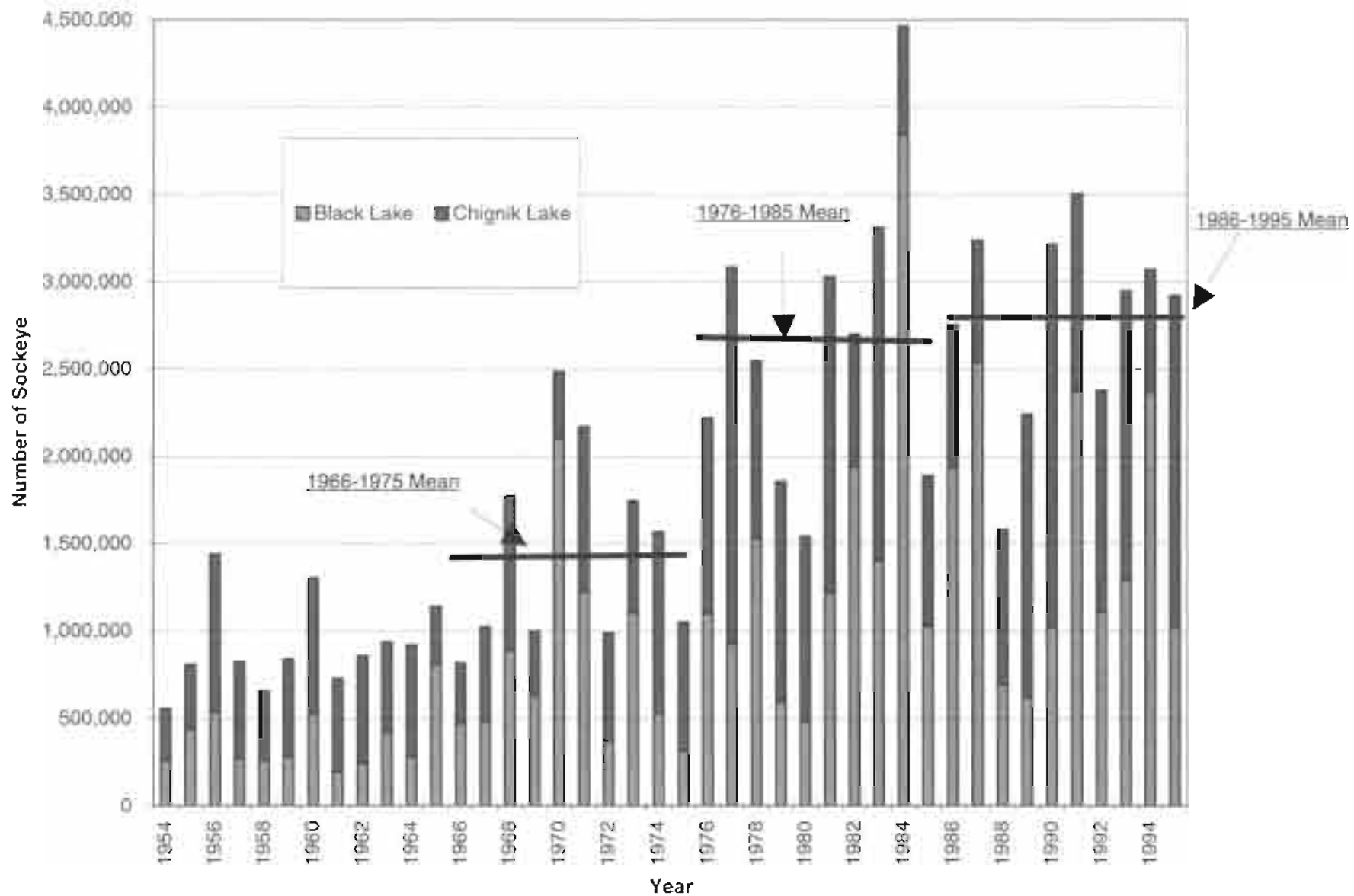


Figure 12. Total sockeye salmon runs to Black and Chignik Lakes, 1954-1995.

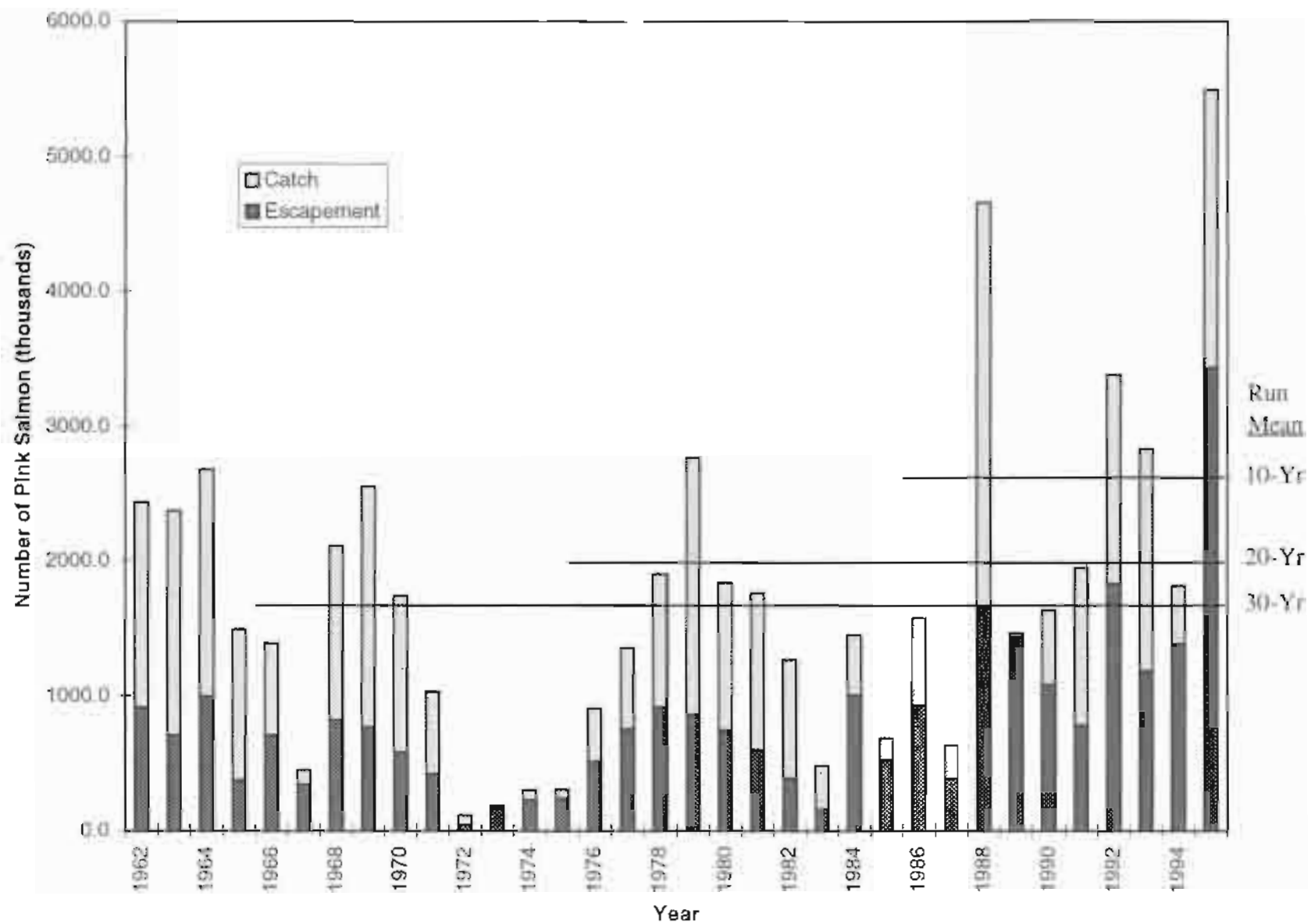


Figure 13. Pink salmon catch and escapement in the Chignik Management Area, 1962-1995.

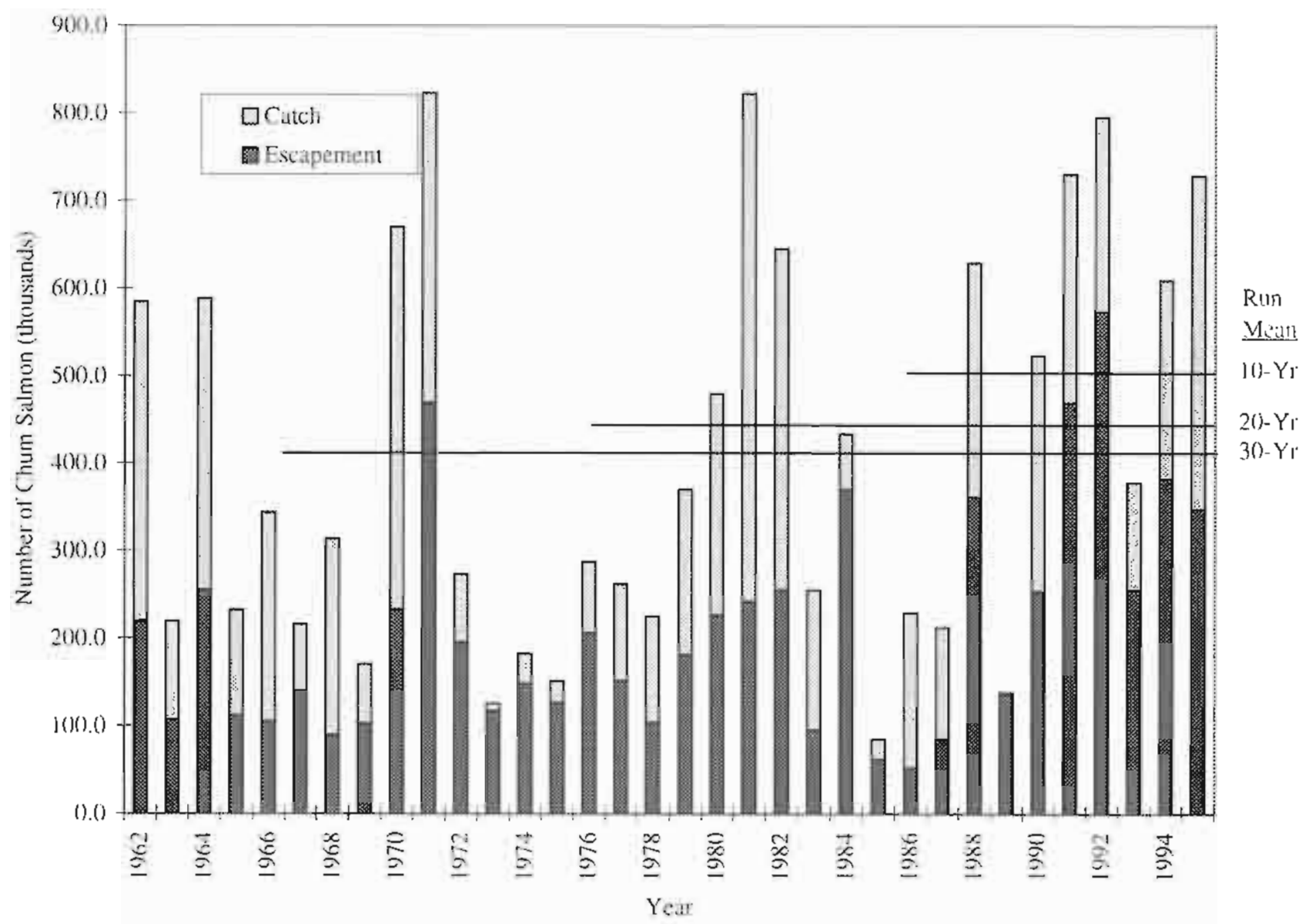


Figure 14. Chum salmon catch and escapement in the Chignik Management Area, 1962-1995.

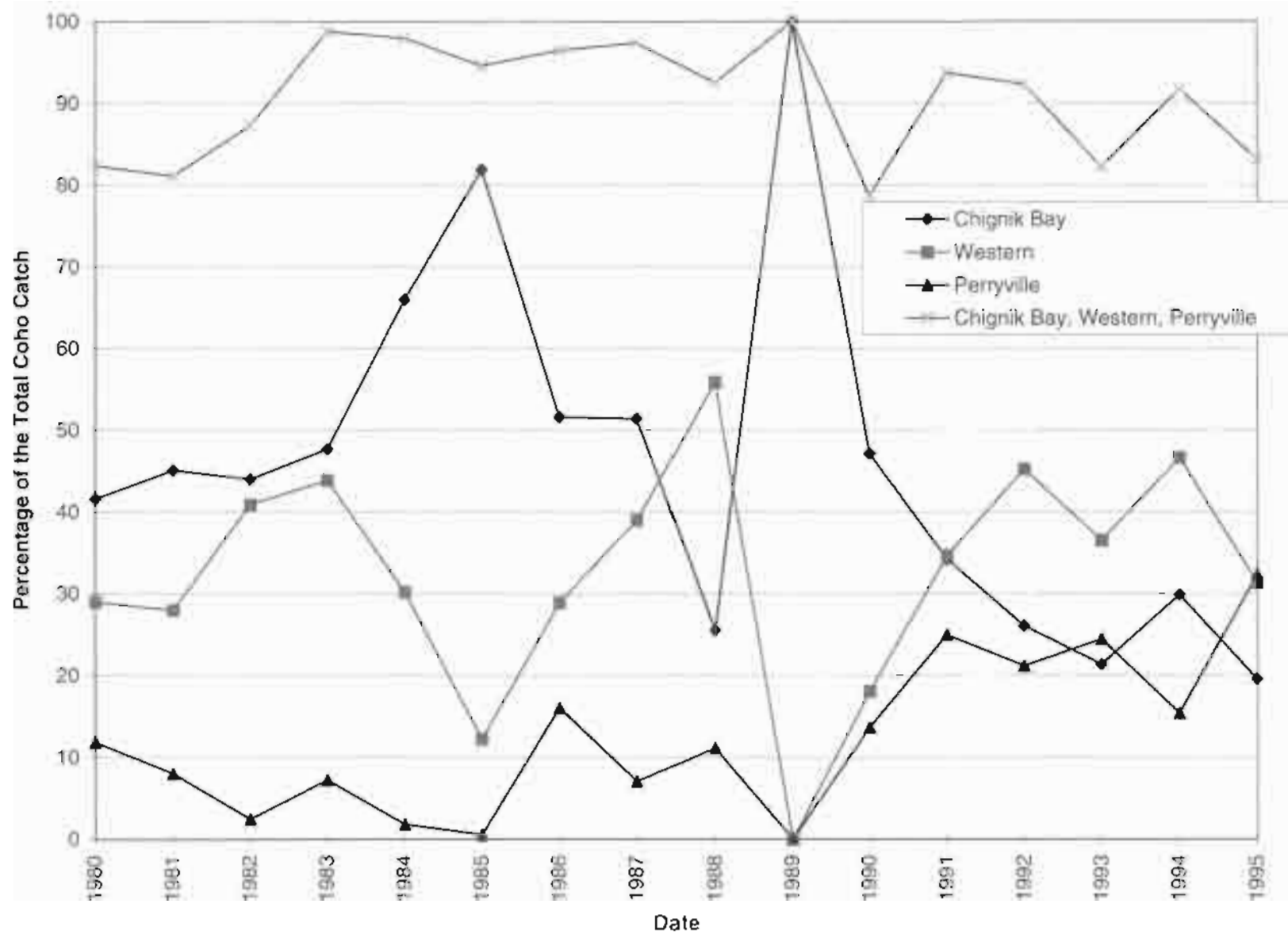


Figure 15. Percentage of coho caught in the Chignik Bay, Western, and Perryville Districts, 1980-1995.

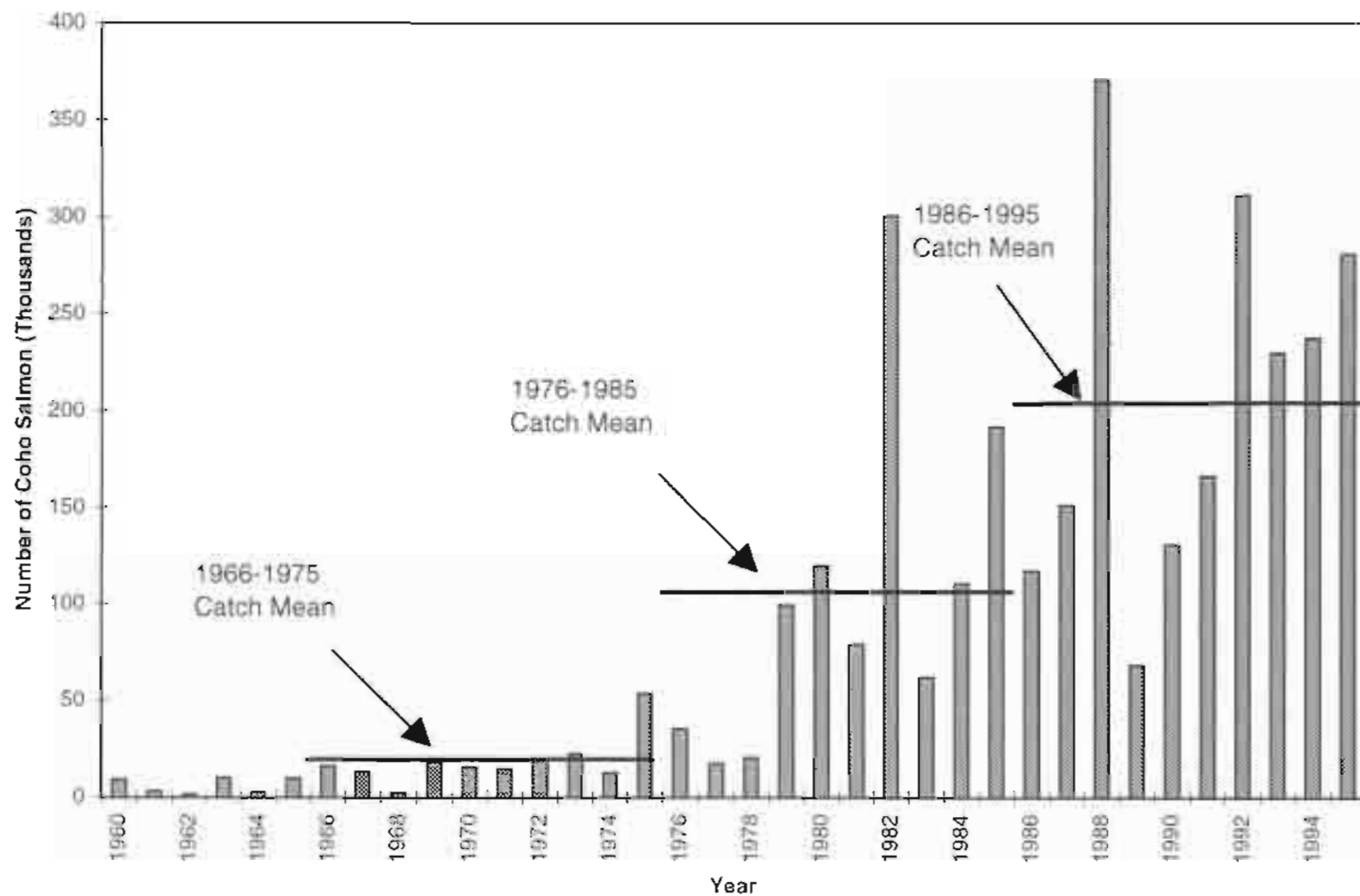


Figure 16. Coho salmon catches in the Chignik Management Area, 1960-1997.

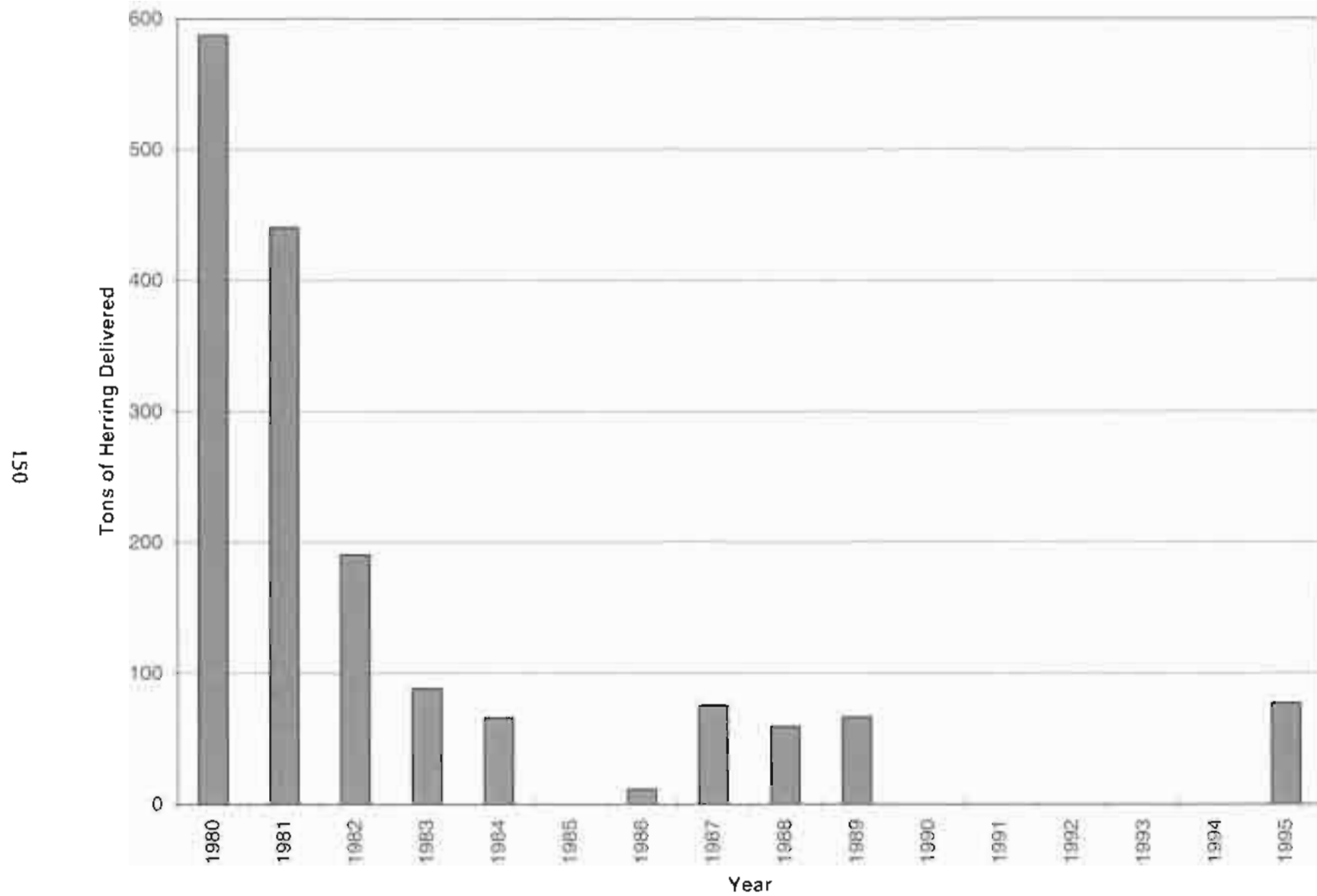


Figure 17. Herring harvests in the Chignik Management Area, 1980-1995.

APPENDIX

Appendix A.1. Chignik Management Area salmon forecasts, 1995.

FORECAST AREA: **Chignik Management Area**

SPECIES: **Sockeye salmon**

PRELIMINARY FORECAST OF THE 1995 RUN:

	Forecast Estimate (thousands)	Forecast Range (thousands)
TOTAL PRODUCTION:		
<i><u>Early Run (Black Lake)</u></i>		
Total Run	1,900	1,300–2,400
Escapement	400	
Commercial Common Property Harvest	1,500	
<i><u>Late Run (Chignik Lake)</u></i>		
Total Run	900	650–1,250
Escapement	250	
Commercial Common Property Harvest	650	
<i><u>Total Chignik Run</u></i>		
Total Run	2,800	2,050–3,350
Escapement	650	
Commercial Common Property Harvest	2,150	

FORECAST METHODS

The estimated run to Black Lake is the sum of a regression estimate for two major age classes (ages 1.3 and 2.3) and a 10-year average for minor age classes, while the Chignik Lake run is based on recruit per spawner relationships. The Black Lake forecast is based on the historical relationship between the number and length of prior year age-1.2 fish. All other age classes are predicted from a 10-year average. The Chignik Lake forecast accuracy has historically been quite variable, and developing a model such as the one used for the Black Lake run has been unsuccessful. The 1995 Chignik Lake run forecast for 1995 was derived using post-1969 average return per spawner relationships for each year class.

Early Run: The 1995 Black Lake sockeye salmon run is expected to be 1.9 million fish. This is approximately 0.3 million fish more than the 1984–93 average run of 1.6 million fish and 100,000 fish more than the 1993 forecast. This above average run is expected because in 1994 age-1.2 fish were about 40% more abundant than the 10-year average.

-Continued-

DISCUSSION OF THE 1995 FORECAST

Late Run: The estimated 1995 Chignik Lake sockeye run is 0.9 million fish, 0.3 million less than the 1984–93 average of 1.2 million fish. The Chignik Lake run forecast accuracy has historically been quite poor when compared to actual returns. For the 6-year-olds which typically dominate the run, the 1989 parent year escapement of 557,171 is 300,000 over the optimum of 250,000. Overescapements of this magnitude have historically resulted in a low recruit per spawner relationship (<1). Since 1970 when Black Lake runs have exceeded 1.5 million (8 times in the last 25 years), Chignik Lake runs have been low.

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Chignik Management Area 1995 Harvest Projections (in thousands)

<u>Chinook</u> ¹	<u>Sockeye</u> ²	<u>Coho</u> ³	<u>Pink</u> ⁴	<u>Chum</u> ⁵	<u>Total</u>
7	1,677	200	1,100	240	3,224

¹ Chinook harvest is dependent upon the amount of fishing time allowed for sockeye salmon in July; the harvest projection approximates a 10-year average.

² Estimate does not include the Cape Igvak and Southeast Mainland District intercept fisheries (22% allocation) which equates to approximately .5 million Chignik bound sockeye salmon through July 25.

³ Coho salmon harvest is related to the strength of the Chignik Lake sockeye run. Lagoon and outside catches are based on a 10-year harvest average.

⁴ The pink salmon forecast is computed by multiplying the average recruit per spawner for the previous ten years by the parent year escapement. The catch projection is driven by escapements to the Central/Eastern and Western/Perryville Districts. The largest pink catches should come from the Central/Eastern Districts and could account for 60% of the projected total. Unstable stream conditions in these districts have resulted in poor returns from excellent parent year escapements.

⁵ The chum salmon forecast is computed by multiplying the average recruit per spawner for the previous ten years by the parent year escapement. Western/Perryville Districts should experience the largest proportion of the catch.

Appendix A.2. Comparison of Black Lake (early run) and Chignik Lake (late run) forecasts versus actual runs in millions of sockeye salmon, 1987-1995.

Year	Early Run			Late Run			Combined Total Run		
	Forecast	Actual	Percent Difference	Forecast	Actual	Percent Difference	Forecast	Actual	Percent Difference
1987	1.8	2.5	-38.9%	1.3	0.7	46.2%	3.1	3.2	-3.2%
1988	1.4	0.7	50.0%	0.8	0.9	-12.5%	2.2	1.6	27.3%
1989	1.2	0.6	50.0%	1.0	1.6	-60.0%	2.2	2.2	0.0%
1990	0.8	1.0	-25.0%	1.0	2.2	-120.0%	1.8	3.2	-77.8%
1991	2.8	2.4	14.3%	1.1	1.1	0.0%	3.9	3.5	10.3%
1992	1.8	1.1	38.9%	0.9	1.3	-44.4%	2.7	2.4	11.1%
1993	1.6	1.3	18.8%	1.0	1.7	-70.0%	2.6	3.0	-15.4%
1994	1.8	2.4	-33.3%	1.3	0.7	46.2%	3.1	3.1	0.0%
1995	1.9	1.0	47.4%	1.9	0.9	52.6%	2.8	2.9	-3.6%

Appendix B.1. Total sockeye return to Black Lake by brood year and age, 1915 - 1995.

	Parent Year Escapement	Age Composition												Total	Return/ Spawner
		0.2	1.1	0.3	1.2	2.1	1.3	2.2	1.4	2.3	3.2	2.4	3.3		
1915												1,202	1,202	2,404	
1916									9,315	68,559	37	15	0	77,926	
1917							318,491	20,666	576	18,747	0	0	0	358,480	
1918				0	12,960	0	43,803	6,984	0	49,097	0	0	138	0	112,982
1919		0	0	0	15,073	0	92,073	28,499	16	74,062	30	0	324	0	210,077
1920		0	0	0	63,251	0	422,288	28,279	0	111,422	6,511	0	273	0	632,024
1921		0	0	0	122,550	0	258,628	113,493	5,873	255,927	0	0	0	0	756,471
1922	86,421	0	0	0	40,685	0	659,040	56,121	0	202,612	2,465	1,222	1,669	0	963,814
1923	4,642	0	0	0	18,213	0	172,343	53,445	2,677	132,776	410	436	59	0	380,359
1924	121,983	0	0	0	85,083	0	1,206,555	8,855	426	19,931	939	384	384	0	1,322,557
1925	386,364	0	0	0	1,529	0	54,164	9,924	384	50,707	937	17	0	0	117,662
1926	289,009	0	0	0	7,544	420	104,094	45,572	11,714	352,025	7,117	0	1,708	0	530,194
1927	857,881	0	0	0	99,929	66	2,375,878	85,253	721	107,239	165	3,699	4,234	0	2,677,184
1928	507,353	0	0	0	23,860	0	304,338	49,284	9,848	428,369	2,755	409	2,118	0	820,981
1929	995,832	0	0	0	9,910	0	918,487	58,777	5,626	60,214	865	144	144	0	1,054,167
1930	92,955	0	0	0	23,769	0	286,339	13,886	6,663	43,297	3,527	4	0	0	377,485
1931	96,201	0	0	0	33,685	943	923,763	46,710	28	122,389	0	655	58	0	1,128,231
1932	2,151,734	0	0	0	50,602	0	191,354	36,823	10,350	43,060	291	8,584	234	0	341,298
1933	223,913	0	0	0	62,079	0	247,818	7,609	138,675	164,540	0	625	54	0	621,400
1934	866,890	0	0	0	16,228	4	1,583,632	6,057	9,886	40,971	276	1,299	113	0	1,658,466
1935	194,636	0	10	0	68,710	0	235,971	7,188	20,562	85,058	572	1,508	130	0	419,709
1936	548,039	0	0	0	15,422	3	490,061	14,873	23,865	98,553	661	2,346	201	0	645,985
1937	205,613	0	9	0	32,001	7	567,984	17,179	37,146	153,156	1,026	960	82	0	809,550
1938	175,972	0	19	0	37,059	7	882,938	26,618	15,193	62,552	418	706	60	0	1,025,570
1939	1,142,852	0	22	0	57,563	12	360,712	10,840	11,171	45,926	307	2,470	209	0	489,232
1940	176,307	0	35	0	23,499	5	264,904	7,938	39,130	160,651	1,070	7,513	634	0	505,379
1941	374,420	0	14	0	17,246	3	926,890	27,697	119,048	488,137	3,247	1,196	101	0	1,583,579
1942	442,981	0	11	0	60,302	12	2,817,023	83,954	18,948	77,598	515	684	58	0	3,059,105
1943	701,859	0	36	0	183,156	37	447,919	13,315	10,839	44,522	297	499	38	0	700,658
1944	291,844	0	111	0	29,106	6	256,848	7,683	7,947	31,664	203	482	43	0	334,093
1945	217,882	0	18	0	16,715	3	183,734	5,143	7,619	31,784	216	275	27	0	245,534
1946	774,130	0	10	0	11,775	2	182,835	5,644	4,307	18,686	133	707	64	0	224,163
1947	2,386,733	0	7	0	11,988	2	106,718	3,550	11,150	46,809	320	525	43	0	181,112

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Appendix B.1. (page 2 of 3)

	Parent Year Escapement	Age Composition													Total	Return/ Spawner
		0.2	1.1	0.3	1.2	2.1	1.3	2.2	1.4	2.3	3.2	2.4	3.3	Other		
1948	384,637	0	7	0	7,129	1	268,953	8,407	8,346	33,877	223	352	0	0	327,295	0.9
1949	213,269	0	4	0	17,688	4	195,878	5,713	0	89,095	0	0	152	0	308,534	1.4
1950	206,270	0	11	0	12,671	3	287,407	12,644	1,862	76,722	648	373	286	0	392,627	1.9
1951	125,126	0	8	0	46,798	0	448,360	3,404	2,319	124,345	0	455	0	0	625,689	5.0
1952	34,155	0	0	0	4,390	0	137,957	3,423	208	81,691	0	639	2,512	0	230,820	6.8
1953	168,375	0	0	0	1,024	32	154,589	17,848	1,625	180,887	252	0	1,350	0	357,607	2.1
1954	184,953	0	143	0	6,468	0	50,272	10,720	515	72,973	9	312	1,009	0	142,421	0.8
1955	256,757	0	783	0	30,302	0	430,793	3,476	339	88,693	109	0	0	0	554,495	2.2
1956	289,096	0	17	0	16,499	0	81,569	14,910	9	90,001	0	196	4,967	0	208,168	0.7
1957	192,479	0	0	0	6,559	161	117,979	10,507	52	210,686	3,641	21	906	0	350,512	1.8
1958	120,862	0	905	0	19,146	0	79,955	81,992	0	60,132	77	61	103	0	242,370	2.0
1959	112,226	0	1,522	0	31,039	142	148,403	13,872	402	144,581	874	58	54	0	340,947	3.0
1960	251,567	0	124	0	55,546	221	610,592	32,598	6,221	65,418	49	606	3,383	0	774,756	3.1
1961	140,714	0	276	0	14,301	1	387,053	3,483	536	164,278	486	1,020	209	0	571,645	4.1
1962	167,602	0	698	0	8,379	0	257,371	25,726	3,194	395,626	1,524	954	0	0	693,473	4.1
1963	332,536	0	0	0	29,538	173	448,298	17,628	905	199,104	0	2,506	551	0	698,703	2.1
1964	137,073	0	37	0	13,311	3,735	190,972	133,203	3,809	409,973	414	0	271	0	755,726	5.5
1965	307,192	0	394	0	102,570	421	1,535,858	80,851	3,332	201,220	271	497	22,731	0	1,948,144	6.3
1966	383,545	0	1,631	0	65,254	378	990,567	15,248	2,193	225,660	28	0	2,504	0	1,303,463	3.4
1967	328,000	0	2,728	0	16,157	163	99,357	6,078	13,406	96,629	1,537	0	0	0	236,054	0.7
1968	342,343	0	271	0	12,997	0	971,408	4,519	2,163	161,664	1,960	0	1,663	0	1,156,644	3.4
1969	366,589	0	0	0	12,747	153	279,429	63,258	1,313	84,120	486	0	2,251	0	443,757	1.2
1970	536,257	0	0	0	17,281	261	195,050	8,163	4,614	192,247	621	0	3,698	0	421,934	0.8
1971	671,668	0	569	0	22,138	0	800,515	67,483	3,873	454,039	385	264	6,763	0	1,356,029	2.0
1972	326,320	0	0	0	31,630	0	423,794	16,474	3,195	587,997	4,596	831	2,564	0	1,071,082	3.3
1973	533,047	0	0	0	19,627	0	753,970	121,231	0	324,538	1,425	511	1,812	0	1,223,113	2.3
1974	351,701	0	51	0	50,797	334	123,590	117,544	116	305,094	551	452	2,727	0	601,256	1.7
1975	308,914	0	0	0	19,977	1,826	71,732	55,434	1,010	447,233	1,057	396	34	2,437	601,137	1.9
1976	551,254	0	520	0	44,085	88	669,395	24,810	816	135,036	0	0	334	11,778	886,860	1.6
1977	482,247	0	102	0	59,211	389	1,687,898	12,701	6,990	337,281	0	3,492	1,655	44,852	2,154,571	4.5
1978	458,660	0	235	0	55,123	3,060	448,274	61,734	6,664	354,902	0	0	210	15,138	945,339	2.1
1979	385,694	0	1,241	0	533,050	671	3,195,846	57,155	4,133	68,046	223	422	805	1,350	3,862,941	10.0
1980	311,332	0	255	120,421	99,989	1,187	641,668	151,574	1,503	741,614	2,098	943	1,113	4,847	1,767,213	5.7

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Year	Parent Escapement	Age Composition													Total	Return/ Spawner
		0.2	1.1	0.3	1.2	2.1	1.3	2.2	1.4	2.3	3.2	2.4	3.3	Other		
1981	438,540	0	532	0	155,923	1,112	938,072	75,567	4,289	664,383	510	1,112	259	2,819	1,844,578	4.2
1982	616,117	0	121	0	172,993	2,021	1,627,753	134,483	2,133	391,690	0	394	0	194	2,331,780	3.8
1983	426,177	0	0	19,136	79,674	3,905	209,772	37,475	285	211,457	2	3,596	0	466	565,767	1.3
1984	597,712	478	2,279	1,225	46,148	2,194	324,901	42,078	2,605	210,908	1,216	703	2,461	0	637,196	1.1
1985	377,516	156	501	510	36,677	638	376,202	73,568	20,665	249,837	1,091	1,202	9,240	3,500	773,787	2.0
1986	566,088	384	1,517	6,384	342,057	0	1,893,213	55,260	2,978	203,218	11,147	5,791	1,147	45	2,523,141	4.5
1987	589,291	2,325	0	961	145,616	1,027	727,158	75,666	8,944	433,856	2,904	6,072	31,613	745	1,436,887	2.4
1988	420,577	0	1,467	670	70,153	1,885	491,967	122,690	5,445	961,154	1,426	798	444	256	1,658,355	3.9
1989	384,004	32	4,416	5,832	213,429	2,749	1,035,809	143,882	4,177	269,344	1,258			1,452	1,682,380	4.4
1990	434,543	1,004	557	34,085	137,435	5,125	461,077	180,324						587	820,194	1.9
1991	657,511	720	520	1,836	109,115	333										0.2
1992	360,681	1,846	449													
1993	364,263															
1994	766,909															
1995	366,163															

Appendix B.2 Total sockeye return to Chignik Lake by brood year and age, 1915-1995.

Year	Parent Escapement	Age Composition													Return/	
		0.2	1.1	0.3	1.2	2.1	1.3	2.2	3.1	1.4	2.3	3.2	2.4	3.3	Other	Total Spawner
1915													4,514	4,514		9,028
1916									11,874	690,450	9,120	2,007	0	0	0	713,451
1917							339,637	149,163	0	296	274,036	0	0	0	0	763,132
1918				0	44,358	0	201,318	195,611	0	0	999,888	0	2,948	2,966	0	1,447,089
1919		0	0	0	100,404	2,425	243,024	286,119	0	2,492	423,094	8,270	0	5,828	0	1,071,656
1920		0	0	0	148,914	0	435,826	137,704	0	2,509	300,319	20,713	0	1,567	0	1,047,552
1921		0	0	0	101,251	0	216,728	278,711	0	4,085	193,620	2,245	955	3,396	0	800,991
1922	352,807	0	0	0	43,667	0	382,956	73,351	0	0	991,979	14,972	2,886	4,175	0	1,513,986
1923	213,781	0	0	0	74,884	218	410,194	245,187	0	2,360	577,390	1,111	1,647	2,376	0	1,315,367
1924	910,521	0	0	0	126,685	1,819	1,003,422	8,350	0	1,115	102,217	5,830	425	55	0	1,249,918
1925	677,566	0	0	0	3,736	0	51,222	195,414	0	332	427,580	7,817	5,367	456	0	691,924
1926	695,314	0	0	0	25,764	919	279,018	304,619	273	3,461	879,220	3,821	55	2,246	0	1,499,396
1927	429,525	0	207	0	113,952	1,499	951,950	100,633	0	744	203,942	1,586	1,225	5,557	0	1,381,295
1928	1,020,520	0	0	0	40,063	0	353,506	77,224	0	12,047	300,603	3,129	1,042	1,618	0	789,232
1929	914,307	0	0	0	16,254	0	584,561	38,873	253	5,675	361,557	1,165	2,192	1,251	0	1,011,781
1930	359,405	0	0	0	26,688	0	426,128	41,867	0	6,177	344,419	16,565	2,065	0	0	863,909
1931	631,986	0	0	0	30,856	2,454	296,899	138,440	0	3,747	264,858	0	2,678	635	0	740,567
1932	1,113,859	0	0	0	24,809	0	475,759	46,764	0	8,530	185,288	2,049	13,674	1,502	0	758,375
1933	310,088	0	0	0	35,679	0	311,946	35,705	0	48,795	321,467	0	1,267	301	0	755,160
1934	447,642	0	0	0	19,716	90	708,212	33,934	0	4,066	88,027	969	4,299	1,026	0	860,339
1935	462,469	0	69	0	37,642	308	148,352	16,893	0	13,842	299,288	3,284	4,082	976	0	524,736
1936	376,838	0	0	0	9,342	43	504,624	57,326	0	13,186	284,707	3,117	9,326	2,233	0	883,904
1937	406,618	0	33	0	31,723	145	480,250	54,435	0	30,220	651,642	7,116	2,664	639	0	1,258,867
1938	305,827	0	111	0	30,143	137	1,099,657	124,382	0	8,660	186,504	2,032	1,128	270	0	1,453,024
1939	512,754	0	106	0	68,919	315	314,851	35,542	0	3,674	79,035	859	5,420	1,305	0	510,026
1940	152,957	0	244	0	19,705	90	133,474	15,039	0	17,705	380,481	4,130	10,049	2,422	0	583,339
1941	531,904	0	70	0	8,342	38	642,782	72,293	0	32,912	706,532	7,654	2,225	537	0	1,473,385
1942	516,621	0	30	0	40,124	183	1,194,007	134,060	0	7,305	156,659	1,695	4,662	1,112	0	1,539,837
1943	1,205,418	0	143	0	74,442	340	264,830	29,686	0	15,007	324,527	3,562	5,405	1,321	0	719,263
1944	351,212	0	266	0	16,492	75	547,139	62,179	0	18,110	385,087	4,101	2,886	711	0	1,037,046
1945	151,326	0	59	0	34,405	157	652,782	72,138	0	9,784	207,054	2,186	1,246	315	0	980,126
1946	739,884	0	121	0	40,246	183	351,541	38,531	0	4,401	91,579	937	1,531	371	0	529,441
1947	1,393,990	0	147	0	21,549	98	156,343	16,644	0	5,048	108,068	1,165	1,316	333	0	310,711
1948	313,319	0	80	0	9,390	42	182,792	20,430	0	4,658	96,858	989	826	0	0	316,065
1949	574,715	0	36	0	11,360	52	165,402	17,581	0	1,766	103,345	0	496	650	0	300,688
1950	861,070	0	41	0	9,924	45	199,966	31,411	0	2,206	245,826	407	2,903	1,820	0	494,549

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Appendix B.2. (page 2 of 3)

Year	Parent	Age Composition														Return/	
	Escapement	0.2	1.1	0.3	1.2	2.1	1.3	2.2	3.1	1.4	2.3	3.2	2.4	3.3	Other	Total	Spawner
1951	490,899	0	38	0	33,082	0	618,729	13,748	0	7,046	242,042	0	1,028	0	0	915,713	1.9
1952	260,540	0	0	0	22,213	0	258,747	30,836	0	986	229,563	0	3,932	8,403	0	554,680	2.1
1953	221,408	0	0	0	9,167	428	125,399	32,350	0	470	396,916	1,935	934	5,424	0	573,023	2.6
1954	277,912	0	547	0	2,848	0	39,658	75,361	0	771	418,442	804	1,661	5,069	0	545,161	2.0
1955	201,409	0	369	0	32,187	0	303,988	32,708	0	168	363,162	1,252	0	0	0	733,834	3.6
1956	483,024	0	1,330	0	12,515	0	106,327	36,113	0	435	221,169	0	1,349	4,781	0	384,019	0.8
1957	328,779	0	0	0	17,746	622	232,393	109,475	0	351	332,661	2,104	1,189	1,319	0	697,860	2.1
1958	212,594	0	1,459	0	50,630	0	23,204	139,797	0	0	418,960	980	93	432	0	635,555	3.0
1959	308,645	0	3,286	0	18,094	907	109,165	81,640	227	117	197,975	738	689	187	0	413,025	1.3
1960	357,230	0	146	0	24,446	491	122,278	8,273	0	1,314	210,884	141	1,618	12,824	0	382,415	1.1
1961	254,970	0	718	0	1,899	799	109,935	18,702	0	220	401,733	2,698	5,335	2,420	0	544,459	2.1
1962	324,860	0	123	0	4,312	0	44,074	69,811	0	998	692,188	1,074	1,109	0	0	813,689	2.5
1963	200,314	0	0	0	5,536	1,300	103,116	68,605	0	29	243,939	0	1,501	867	0	424,893	2.1
1964	166,625	0	88	0	6,607	4,550	24,880	65,639	0	700	138,282	943	205	6,114	0	248,008	1.5
1965	163,151	0	1,636	0	25,157	5,547	159,113	57,942	0	382	650,181	1,028	659	96,111	0	997,756	6.1
1966	183,525	0	1,715	0	14,517	925	300,759	30,263	0	461	413,807	2,453	0	18,073	0	782,974	4.3
1967	189,000	0	501	0	6,187	768	78,308	31,097	0	701	482,538	2,780	1,342	0	0	604,221	3.2
1968	244,836	0	914	0	3,835	0	115,840	20,435	339	636	583,517	15,603	2,691	30,092	0	773,902	3.2
1969	132,055	0	0	0	1,239	1,062	85,064	270,966	283	818	487,805	7,288	0	16,722	0	871,247	6.6
1970	119,952	0	0	0	18,234	12,035	27,646	151,089	0	1,318	461,271	12,205	0	19,870	0	703,668	5.9
1971	232,501	0	1,500	0	15,448	12,620	185,532	410,628	0	236	1,898,372	4,096	2,842	13,887	0	2,545,161	10.9
1972	231,270	0	0	0	30,087	2,445	120,639	96,178	0	98	718,493	30,779	287	3,698	0	1,002,684	4.3
1973	247,144	0	0	0	5,778	10,740	56,736	173,028	0	0	919,784	3,852	1,248	4,756	0	1,175,922	4.8
1974	364,612	0	4,420	0	19,284	2,764	105,493	196,981	0	51	677,611	2,036	2,316	9,262	2,703	1,022,921	2.8
1975	314,084	0	0	0	24,550	7,125	123,634	185,390	0	914	859,629	3,573	6,449	2,334	7,609	1,221,207	3.9
1976	341,828	0	1,103	0	59,255	807	775,826	94,346	0	2,484	499,554	0	3,117	10	5,083	1,441,585	4.2
1977	463,561	0	252	0	52,795	3,975	155,472	59,987	0	1,958	1,207,619	0	2,034	789	7,477	1,492,358	3.2
1978	263,009	0	422	0	16,755	5,822	259,993	318,606	0	686	278,532	490	1,752	176	239	883,473	3.4
1979	317,889	0	2,029	0	102,991	5,057	281,909	28,124	0	1,235	278,237	388	1,469	784	3,223	705,446	2.2
1980	279,729	0	1,794	8,287	13,217	6,060	156,838	320,949	0	632	448,135	3,096	830	1,070	1,189	962,097	3.4
1981	301,092	0	1,116	0	88,980	5,093	232,004	74,324	0	664	370,421	151	649	74	35	773,511	2.6
1982	305,193	0	2,542	0	51,480	3,199	194,469	108,490	0	740	582,904	160	1,383	0	301	945,668	3.1
1983	441,561	0	0	2,715	12,125	3,824	148,143	109,807	0	208	1,105,502	807	11,621	76	0	1,394,828	3.2
1984	268,496	120	914	552	30,409	10,724	150,188	324,007	0	2,480	1,638,859	1,743	9,695	7,155	597	2,177,443	8.1
1985	369,262	98	689	207	18,638	16,398	174,283	161,966	0	6,682	501,843	1,161	4,112	3,789	173	890,039	2.4
1986	207,231	103	2,745	13,060	179,104	321	345,786	175,958	0	1,834	497,777	7,787	12,896	2,149	619	1,240,139	6.0

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Year	Parent	Age Composition														Return/	
	Escapement	0.2	1.1	0.3	1.2	2.1	1.3	2.2	3.1	1.4	2.3	3.2	2.4	3.3	Other	Total	Spawner
1987	214,452	6,253	686	1,066	72,172	9,757	457,744	225,494	0	6,045	1,037,042	6,866	7,292	71,800	125	1,902,342	8.9
1988	255,180	0	2,430	1,115	57,578	3,326	295,438	109,596	0	2,118	206,346	4,081	10,599	8,810	1,268	702,705	2.8
1989	557,171	418	7,979	9,244	171,035	4,773	273,461	105,477	0	4,006	1,203,326	7,422			324	1,787,465	3.2
1990	335,867	447	442	6,049	26,006	1,321	367,890	187,349	0								
1991	382,587	134	201	1,014	105,451	1,941											
1992	405,922	636	1,111														
1993	333,114																
1994	197,445																
1995	373,757																

Appendix C. Emergency orders for the Chignik Management Area, 1995.

EMERGENCY ORDER NO. 4-F-L-02-95

Issued at: Chignik, AK
8:00 a.m., June 10, 1995

EFFECTIVE DATE: 2:00 p.m.
Sunday, June 11, 1995

Expiration Date: 2:00 p.m.
Monday, June 12, unless superseded
by subsequent emergency order.

EXPLANATION:

The Chignik Bay, Central, and Eastern Districts of the Chignik Management Area will open to commercial salmon fishing for 24 hours from 2:00 p.m. Sunday, June 11 until 2:00 p.m. Monday, June 12. Fishing will be allowed up to the regulatory markers at Mensis Point in Chignik Lagoon. The fishery opening will be started by a flare and fishers are encouraged to monitor VHF channel 6 for the final countdown.

REGULATION:

5 ACC 15.310. Fishing Seasons is amended to read:

5 AAC 15.310. FISHING SEASONS. (a) In the Chignik Bay District, salmon may be taken only from June 11 through October 31.

5 AAC 15.320 is amended to read:

5 AAC 15.320. WEEKLY FISHING PERIODS. (a) The Chignik Bay, Central, and Eastern Districts will be open to commercial salmon fishing from 2:00 p.m. Sunday, June 11 until 2:00 p.m. Monday, June 12.

5 AAC 15.350. CLOSED WATERS (1) is amended to read:

(1) All waters upstream from a line drawn between markers from Mensis Point at approximately 56°16'09" N. lat., 158°38'06" W. long., to the opposite shore at approximately 56°16'06" N. lat., 158°38'06" W. long..

JUSTIFICATION:

A fishery is warranted because the test fishery on June 10 indicated a significant buildup of sockeye salmon in the Chignik Lagoon. Additionally, the total escapement of 65,607 as of 9:00 p.m. June 10, surpassed the June 14 interim escapement goal of 50,000-65,000. However, a short opening

-Continued-

was initiated to insure that the test fishery estimate was close to fishery performance. The Central and Eastern District will open concurrently with the Chignik Bay District as described in the Eastern District Management Plan 5 ACC 15.360.

EMERGENCY ORDER NO. 4-F-L-03-95

Issued at: Chignik, AK.,
12:00 p.m. June 11, 1995

EFFECTIVE DATE: 2:00 p.m.
Monday, June 12, 1995

Expiration Date: 2:00 p.m.
Wednesday, June 14, unless
superseded by subsequent
emergency order.

EXPLANATION:

The Chignik Bay, Central, and Eastern Districts of the Chignik Management Area will extend to commercial salmon fishing for 48 hours from 2:00 p.m. Monday, June 12 until 2:00 p.m. Wednesday, June 14. Fishing will be allowed only up to the regulatory markers at Hume's Point in Chignik Lagoon beginning at 2:00 p.m., Monday, June 12, 1995.

REGULATION:

5 AAC 15.320 is amended to read:

5AAC 15.320. WEEKLY FISHING PERIODS. (a) The Chignik Bay, Central, and Eastern Districts will extend to commercial salmon fishing from 2:00 p.m. Monday, June 12 until 2:00 p.m. Wednesday, June 14.

5 AAC 15.350 (1) is amended to read:

5AAC 15.350. CLOSED WATERS. Salmon may not be taken in the following waters effective at 2:00 p.m. Monday, June 12:

(1) Chignik Lagoon

(A) southwest of a line from the tip of Hume Point to the north side of Chignik Island (56°17'25" N. lat., 158°35'30" W. long.);

(B) Mallard Duck Bay: southwest of a line from the tip of Green Point to Chignik Island (56°16'38" N. lat., 158°34'54" W. long.);

-Continued-

JUSTIFICATION:

A fishery extension is warranted in the Chignik Bay District because the sockeye salmon escapement of 75,000 has already surpassed the interim escapement goal of 50,000 - 65,000 by June 14. The markers are changed from Mensis Point to south of a line drawn from Hume's point to Chignik Island through to Green Point to allow for additional sockeye escapement through the weir. The Central and Eastern District will open concurrently with the Chignik Bay District as described in the Eastern District Management Plan 5 ACC 15.360.

EMERGENCY ORDER NO. 4-F-L-04-95

Issued at: Chignik, AK
6:00 p.m. June 13, 1995

EFFECTIVE DATE: 2:00 p.m.
Wednesday, June 14, 1995

Expiration Date: 2:00 p.m.
Friday, June 16, unless
superseded by subsequent
emergency order.

EXPLANATION:

The Chignik Bay, Central, and Eastern Districts of the Chignik Management Area will extend to commercial salmon fishing for 48 hours from 2:00 p.m. Wednesday, June 14 until 2:00 p.m. Friday, June 16. Fishing in Chignik Lagoon will be allowed only up to the regulatory marker line drawn from Hume's Point to Chignik Island through to Green Point.

REGULATION:

5 AAC 15.320 is amended to read:

5 AAC 15.320. WEEKLY FISHING PERIODS. (a) The Chignik Bay, Central, and Eastern Districts will extend to commercial salmon fishing from 2:00 p.m. Wednesday, June 14 until 2:00 p.m. Friday, June 16.

JUSTIFICATION:

A fishery extension is warranted because the sockeye salmon escapement, 100,000 as of June 13, has already surpassed the interim escapement goal of 75,000 - 100,000 by June 16. Catches in the

-Continued-

Central and Eastern District of 619 sockeye salmon per landing indicate a strong run to date. The Central and Eastern District will open concurrently with the Chignik Bay District as discribed in the Eastern District Management Plan 5 ACC 15.360.

EMERGENCY ORDER NO. 4-F-L-05-95

Issued at: Chignik, AK
7:00 p.m. June 20, 1995

EFFECTIVE DATE: 9:30 a.m.
Wednesday, June 21, 1995

Expiration Date: 9:30 a.m.
Thursday, June 22, unless
superseded by subsequent
emergency order.

EXPLANATION:

The Chignik Bay, Central, and Eastern Districts of the Chignik Management Area will open to commercial salmon fishing for 24 hours from 9:30 a.m. Wednesday, June 21 until 9:30 a.m. Thursday, June 22. Fishing will be allowed up to the regulatory markers at Mensis Point in Chignik Lagoon. The fishery will be opened by flare and fishermen are encouraged to monitor VHF channel 6 for the final countdown.

REGULATION:

5 AAC 15.320 is amended to read:

5 AAC 15.320. WEEKLY FISHING PERIODS. (a) The Chignik Bay, Central, and Eastern Districts will be open to commercial salmon fishing from 9:30 a.m. Wednesday, June 21 until 9:30 a.m. Thursday, June 22.

5 AAC 15.350. CLOSED WATERS (1) is amended to read:

(1) All waters upstream from a line drawn between markers from Mensis Point at approximately 56°16'09" N. lat., 158°38'06" W. long., to the opposite shore at approximately 56°16'06" N. lat., 158°38'06" W. long..

JUSTIFICATION:

A fishery opening is warranted because the test fishery of June 20 indicated a significant buildup of sockeye salmon in the Chignik Lagoon. Sockeye escapement, 155,000 as of 7:00 p.m. June 19, is
-Continued-

anticipated to surpass the interim goal for June 20 of 175,000 - 200,000. The Central and Eastern District will open concurrently with the Chignik Bay District as described in the Eastern District Management Plan 5 ACC 15.360.

EMERGENCY ORDER NO. 4-F-L-06-95

Issued at: Chignik, AK.,
8:00 a.m. June 24, 1995

EFFECTIVE DATE: 3:30 p.m.
Saturday, June 24, 1995

Expiration Date: 3:30 p.m.
Sunday, June 25, unless
superseded by subsequent
emergency order.

EXPLANATION:

The Chignik Bay, Central, and Eastern Districts of the Chignik Management Area will open to commercial salmon fishing for 24 hours from 3:30 p.m. Saturday, June 24 until 3:30 p.m. Sunday, June 25. Fishing will be allowed up to the regulatory marker line extending from Hume's Point to Chignik Island through to Green Point. The fishery will be opened by flare and fishermen are encouraged to monitor VHF channel 6 for the final countdown.

REGULATION:

5 AAC 15.320 is amended to read:

5 AAC 15.320. WEEKLY FISHING PERIODS. (a) The Chignik Bay, Central, and Eastern Districts will be open to commercial salmon fishing from 3:30 p.m. Saturday, June 24 until 3:30 p.m. Sunday, June 25.

JUSTIFICATION:

A fishery opening is warranted because sockeye escapement, 251,000 as of 8:00 a.m. June 24, is anticipated to surpass the upper end of the interim goal for June 25 of 275,000 - 325,000. The Central and Eastern District will open concurrently with the Chignik Bay District as described in the Eastern District Management Plan 5 ACC 15.360.

-Continued-

EMERGENCY ORDER NO. 4-F-L-07-95

Issued at: Chignik, AK
July 2, 1995

EFFECTIVE DATE: 6:30 a.m.
Monday, July 3, 1995

Expiration Date: 6:30 a.m.
Wednesday, July 5, unless
superseded by subsequent
emergency order.

EXPLANATION:

The Chignik Bay and Central Districts of the Chignik Management Area will open to commercial salmon fishing for 48 hours from 6:30 a.m. Monday, July 3 until 6:30 a.m. Wednesday, July 5. Fishing will be allowed up to the regulatory markers at Mensis Point. The fishery will be opened by flare and fishermen are encouraged to monitor VHF channel 6 for the final countdown. The Eastern District will remain closed.

REGULATION:

5 AAC 15.320 is amended to read:

5 AAC 15.320. WEEKLY FISHING PERIODS. (a) The Chignik Bay and Central Districts will open to commercial salmon fishing from 6:30 a.m. Monday, July 3 until 6:30 a.m. Wednesday, July 5.

5 AAC 15.350. CLOSED WATERS (1) is amended to read:

(1) All waters upstream from a line drawn between markers from Mensis Point at approximately 56°16'09" N. lat., 158°38'06" W. long., to the opposite shore at approximately 56°16'06" N. lat., 158°38'06" W. long..

JUSTIFICATION:

A fishery opening is warranted because sockeye escapement, 403,000 as of 10:00 a.m., has surpassed the upper end of the interim goal of 350,000 - 400,000 by June 30. Preliminary scale pattern analysis indicates that the Black Lake escapement will be attained. The Eastern District will not open to allow the department to assess the second (Chignik Lake) sockeye salmon run strength as described in the Eastern District Salmon Management Plan 5 AAC 15.360.

-Continued-

EMERGENCY ORDER NO. 4-F-L-08-95

Issued at: Chignik, AK
2:00 p.m. July 3, 1995

EFFECTIVE DATE: 2:00 p.m.
Tuesday, July 4, 1995

Expiration Date: 8:00 p.m.
Tuesday, July 4, unless
superseded by subsequent
emergency order.

EXPLANATION:

A targeted chum salmon fishery will be permitted in a portion of the Ivanof Bay Section of the Perryville District in the Chignik Management Area. The fishery will open to commercial salmon fishing at 2:00 p.m. Tuesday, July 4 for 6 hours until 8:00 p.m. Tuesday, July 4. Fishing will be allowed up to a regulatory marker line extending from the outermost cannery dock piling to the marker on the eastern side of Ivanof Bay. Regulatory markers for other streams in the bay will be 500 yards from each stream terminus. The southernmost boundary will run along a latitude line extending from Alexander Point to the western side of Ivanof Bay. A fishery management representative will monitor catches closely to determine the feasibility of future openings.

REGULATION:

5 AAC 15.310 is amended to read:

5 AAC 15.310. FISHING SEASONS. (b) In the Perryville, Western, Central, and Eastern Districts salmon may taken during periods established by emergency order only from July 4 through October 31.

5 AAC 15.320 is amended to read:

5 AAC 15.320. WEEKLY FISHING PERIODS. (a) In a portion of the Ivanof Bay Section of the Perryville District between the southern boundary line drawn along the latitude from Alexander Point at 55° 47'22" N. lat., 159°24' 22" W. long., west to the Kupreanof Peninsula, and the northern boundary from the outermost piling of the old cannery dock to the eastern shore at 55°52'28" N. lat., 159° 28'18" W. long., will open to commercial salmon fishing from 2:00 p.m. Tuesday, July 4 until 8:00 p.m. Tuesday, July 4.

-Continued-

5 AAC 15.350 (13) is amended to read:

5 AAC 15.350.CLOSED WATERS.Salmon may not be taken in the following waters:

(13)Ivanof Bay: waters north of a boundary line drawn from the outermost piling of the old cannery dock to the eastern shore at 55°52'28" N. lat., 159° 28'18" W. long..

JUSTIFICATION:

A fishery opening in Ivanof Bay is warranted because an aerial survey on July 2 showed surplus chum salmon to escapement needs; 50,000 in Ivanof bay and 50,000 in the mouth of the Ivanof River. A conservative approach will be taken for the duration of this fishery to insure overharvest does not occur.

EMERGENCY ORDER NO. 4-F-L-09-95

Issued at: Chignik, AK
10:00 a.m. July 4, 1995

EFFECTIVE DATE: 6:30 a.m.
by Wednesday, July 5, 1995

Expiration Date: Unless superseded
a subsequent emergency order

EXPLANATION:

The Chignik Bay and Central Districts of the Chignik Management Area will extend to commercial salmon fishing from 6:30 a.m. Wednesday, July 5 until further notice. Fishing will be allowed up to the regulatory markers at Mensis Point. The Eastern District will remain closed.

REGULATION:

5 AAC 15.320 is amended to read:

5 AAC 15.320. WEEKLY FISHING PERIODS. (a) The Chignik Bay and Central Districts will extend to commercial salmon fishing from 6:30 a.m. Wednesday, July 5 until further notice.

5 AAC 15.350 (1) is amended to read:

5 AAC 15.350.CLOSED WATERS.Salmon may not be taken in the following waters.

-Continued-

(1) All waters upstream from a line drawn between markers from Mensis Point at approximately 56°16'09" N. lat., 158°38'06" W. long., to the opposite shore at approximately 56°16'06" N. lat., 158°38'06" W. long..

JUSTIFICATION:

Preliminary scale pattern analysis indicates that the Black Lake escapement will be attained and surpass the upper end of the interim goal of 350,000 - 400,000 by June 30 and also surpass the Chignik Lake interim escapement goal on July 10 of 40,000. Although the Central and Chignik Bay Districts will open concurrently, the department will close the Eastern District for the period between the first (Black Lake) and second (Chignik Lake) sockeye salmon runs as described in the Eastern District Management Plan 5 ACC 15.360 to facilitate a more representative sampling in Chignik Lagoon of sockeye salmon that could have been otherwise caught in the Eastern District.

EMERGENCY ORDER NO. 4-F-L-10-95

Issued at: Chignik, AK
12:00 p.m. July 5, 1995

EFFECTIVE DATE: 8:00 a.m.
Wednesday, July 5, 1995

Expiration Date: 11:00 p.m.
Wednesday, July 5, unless
superseded by subsequent
emergency order.

EXPLANATION:

A targeted chum salmon fishery will be permitted in a portion of the Ivanof Bay Section in the Perryville District of the Chignik Management Area. The fishery will open to commercial fishing at 8:00 a.m. Wednesday, July 5 for 15 hours until 11:00 p.m. Wednesday, July 5. Fishing will be allowed up to a regulatory marker line extending from the outermost cannery dock piling to the marker on the eastern side of Ivanof Bay. The southernmost boundary will run along a latitude line extending from Alexander Point to the western side of Ivanof Bay. Regulatory markers for other streams in the bay will be 500 yards from the terminus. A department fishery management representative will monitor catches closely to determine the feasibility of future openings.

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REGULATION:

5 AAC 15.320 is amended to read:

5 AAC 15.320. WEEKLY FISHING PERIODS. (a) In a portion of the Ivanof Bay Section of the Perryville District between the southern boundary line drawn along a latitude line from Alexander Point at 55°47'22" N. lat., 159°24'22" W. long., west to the Kupreanof Peninsula, and the northern boundary line drawn from the outermost piling of the old cannery dock to the eastern shore at 55°52'28" N. lat., 159°28'18" W. long., will open to commercial salmon fishing from 8:00 a.m. Wednesday, July 5 until 11:00 p.m. Wednesday, July 5.

5 AAC 15.350 (13) is amended to read:

5 AAC 15.350. CLOSED WATERS. Salmon may not be taken in the following waters:

(13)Ivanof Bay: waters north of a boundary line drawn from the outermost piling of the old cannery dock to the eastern shore at 55°52'28" N. lat., 159°28'18" W. long..

JUSTIFICATION:

A fishery opening in Ivanof Bay is warranted because an aerial survey on July 4 showed surplus chum salmon to escapement needs; 6,000 in Ivanof River, 25,000 in the mouth, and 50,000 in the bay. In addition, total catches are less than 30,000. A conservative approach will be taken for the duration of this fishery to insure overharvest does not occur.

EMERGENCY ORDER NO. 4-F-L-11-95

Issued at: Chignik, AK
11:00 p.m. July 5, 1995

EFFECTIVE DATE: 12:00 p.m.
Thursday, July 6, 1995

Expiration Date: 6:00 p.m.
Thursday, July 6, unless
superseded by subsequent
emergency order.

EXPLANATION:

A targeted chum salmon fishery will be permitted in a portion of the Ivanof Bay Section of the Perryville District of the Chignik Management Area. The fishery will open to commercial salmon fishing at 12:00 p.m. Thursday, July 6 for 6 hours until 6:00 p.m. Thursday, July 6. Fishing will be

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allowed up to a regulatory marker line extending from the outermost cannery dock piling to the marker on the eastern side of Ivanof Bay. The southernmost boundary will run along a latitude line extending from Alexander Point to the western side of Ivanof Bay. Regulatory markers for other streams in the bay will be 500 yards from the terminus. A department fishery management representative will monitor catches closely to determine the feasibility of future openings.

REGULATION:

5 AAC 15.320 is amended to read:

5 AAC 15.320. WEEKLY FISHING PERIODS. (a) In a portion of the Ivanof Section in the Perryville District between the southern boundary line drawn along a latitude line from Alexander Point at 55°47'22" N. lat., 159°24'22" W. long., west to the Kupreanof Peninsula, and the northern boundary from the outermost piling of the old cannery dock to the eastern shore at 55°52'28" N. lat., 159°28'18" W. long., will open to commercial salmon fishing from 12:00 p.m. Thursday, July 6 until 6:00 p.m. Thursday, July 6.

5 AAC 15.350 (13) is amended to read:

5 AAC 15.350.CLOSED WATERS.Salmon may not be taken in the following waters:

(13)Ivanof Bay: waters north of a boundary line drawn from the outermost piling of the cannery dock to the eastern shore at 55°52'28" N. lat., 159°28'18" W. long..

JUSTIFICATION:

A fishery opening in a portion of the Ivanof Bay is warranted because an aerial survey on July 5 showed surplus chum salmon to escapement needs and catches are less than 30,000. A conservative approach will be taken for the duration of this fishery.

EMERGENCY ORDER NO. 4-F-L-12-95

Issued at: Chignik, AK.,
10:00 a.m. July 8, 1995

EFFECTIVE DATE: 2:00 p.m.
by Saturday, July 8, 1995

Expiration Date: Unless superseded
a subsequent emergency order.

EXPLANATION:

In the Chignik Bay and Central Districts of the Chignik Management Area, commercial salmon fishing will continue until further notice with a regulatory marker change at 2:00 p.m. July 8.

-Continued-

Fishing in Chignik Lagoon will be allowed only up to the regulatory marker line drawn from Hume's Point to Chignik Island through to Green Point.

REGULATION:

5 AAC 15.320 is amended to read:

5 AAC 15.320. WEEKLY FISHING PERIODS. (a) The Chignik Bay and Central Districts will continue to be open to commercial salmon fishing from 2:00 p.m. Saturday, July 8 until further notice.

5 ACC 15.350 (1) is amended to read:

5 ACC 15.350.CLOSED WATERS. Effective at 2:00 p.m. July 8, salmon may not be taken in the following waters:

(1) Chignik Lagoon

(A) southwest of a line from the tip of Hume's Point to the north side of Chignik Island (56°17'25" N. lat., 158°35'30" W. long.);

(B) Mallard Duck Bay:southwest of a line from the tip of Green Point to Chignik Island (56°16 38 N. lat., 158°34'54" W. long.);

JUSTIFICATION:

A regulatory marker change is necessary because of low sockeye escapement, less than an average 2,000 per day from July 5 through the 7. Preliminary sockeye age composition data indicates that the stock composition is now dominated by salmon of Chignik Lake origin. Although the Central and Chignik Bay Districts are extended concurrently, the department will close the Eastern District for the period between the first (Black Lake) and second (Chignik Lake) sockeye salmon runs as described in the Eastern District Management Plan 5 ACC 15.360.

EMERGENCY ORDER NO. 4-F-L-13-95

Issued at: Chignik, AK
10:00 a.m. July 9, 1995

EFFECTIVE DATE: 2:30 p.m.
Monday, July 10, 1995

Expiration Date: 2:30 p.m.
Monday, July 10, unless superseded
by subsequent emergency order.

-Continued-

EXPLANATION:

The Chignik Bay and Central Districts of the Chignik Management Area will close to commercial salmon fishing at 2:30 p.m. Monday, July 10. Fishers are placed on a 12 hour notice for a future opening at this same time.

REGULATION:

5 AAC 15.320 is amended to read:

5 AAC 15.320. WEEKLY FISHING PERIODS. (a) The Chignik Bay and Central Districts will close to commercial salmon fishing at 2:30 p.m. Monday, July 10.

JUSTIFICATION:

Although sockeye salmon escapement is above the Chignik Lake interim goal of 60,000, the second run appears to be weak with low escapements (<2,073/day the last five days) and low catches (approximately 22,000 the last two days). After a few days when escapements rebound, the entire Chignik Management Area could open to commercial fishing. In the Ivanof area a stream survey is necessary before an opening will be considered.

EMERGENCY ORDER NO. 4-F-L-14-95

Issued at: Chignik, AK
10:00 a.m. July 14, 1995

EFFECTIVE DATE: 5:30 p.m.
Friday, July 14, 1995

Expiration Date: 11:59 p.m.
Sunday, July 16, unless
superseded by subsequent
emergency order.

EXPLANATION:

The Chignik Bay and Central Districts of the Chignik Management Area will open to commercial salmon fishing at 5:30 p.m. Friday, July 14 for 48 hours until 5:30 p.m. Sunday, July 16. The Chignik Bay fishery will be opened by flare and fishers are encouraged to Monitor VHF channel 6 for the final countdown. The Western and Perryville Districts of the Chignik Management Area will open to commercial salmon fishing for 48 hours starting at 12:01 a.m. Saturday, July 15 until 11:59 p.m. Sunday, July 16. The Eastern District will remain closed.

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Fishing will be allowed up to the regulatory markers at Mensis Point. Open waters in the Central District will be to the regular stream terminus markers except in Kujulik Bay: open waters will be south of a line drawn from Brandel Point on Cape Kumlik to the furthest northeast point on Cape Kumlium. Open waters in the Perryville and Western Districts will include all the waters south of a line from Cape Itki to Alexander Point. Markers in Ivanof Bay will be the Road Island Markers.

REGULATION:

5 AAC 15.320 is amended to read:

5 AAC 15.320. WEEKLY FISHING PERIODS. (a) The Chignik Bay and Central Districts will open to commercial salmon fishing from 5:30 p.m. Friday, July 14 until 5:30 p.m. Sunday, July 16.

(b) The Western and Perryville Districts will open to commercial salmon fishing south of a line drawn from Cape Itki at 55°58'45" N. lat., 158°30' W. long. to Alexander Point at 55°47'22" N. lat., 159°24'34" W. long., from 12:01 a.m. Saturday, July 15 until 11:59 p.m. Sunday, July 16.

5 AAC 15.350. CLOSED WATERS (1) and (9) are amended to read:

(1) All waters upstream from a line drawn between markers from Mensis Point at approximately 56°16'09" N. lat., 158°38'06" W. long., to the opposite shore at approximately 56°16'06" N. lat., 158°38'06" W. long..

(9) In Kujulik Bay of the Central District closed waters include all waters northeast of a line in Kujulik Bay from Brandel Point on Cape Kumlik at 56°36'32" N. lat., 157°40'25" W. long. to the furthest northeast point on Cape Kumlium at 56°33'36" N. lat., 157°49'06" W. long..

JUSTIFICATION:

A fishery is warranted because sockeye second run escapement, 98,088 as of 9:00 a.m. July 14, is anticipated to surpass the July 19 escapement goal of 100,000 - 115,000 by today. Weak chum escapements in outside areas has lead to restrictions in districts outside of the Chignik Bay District. The Eastern District remains closed because the department shall close the Eastern District on July 15 to allow evaluation of the strength of the pink and chum salmon runs as described in the Eastern District Salmon Management Plan 5AAC 15.360.

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EMERGENCY ORDER NO. 4-F-L-15-95

Issued at: Chignik, AK
10:00 a.m. July 16, 1995

EFFECTIVE DATE: 5:30 p.m.
Sunday, July 16, 1995

Expiration Date: 11:59 p.m.
Monday, July 17, unless
superseded by subsequent
emergency order.

EXPLANATION:

The Chignik Bay and Central Districts of the Chignik Management Area will extend to commercial salmon fishing at 5:30 p.m. Sunday, July 16 for 24 hours until 5:30 p.m. Monday, July 17. The Western and Perryville Districts of the Chignik Management Area will extend to commercial salmon fishing for 24 hours starting at 12:00 a.m. Monday, July 17 until 11:59 p.m. Monday, July 17. The Eastern District will remain closed.

Fishing will be allowed up to the regulatory markers at Mensis Point. Open waters in the Central District will be to the regular stream terminus markers except in Kujulik Bay: open waters will be south of a line drawn from Brandel Point on Cape Kumlik to the furthest northeast point on Cape Kumlium. Open waters in the Perryville and Western Districts will include all the waters south of a line from Cape Itki to Alexander Point. Markers in Ivanof Bay will be the Road Island Markers.

REGULATION:

5 AAC 15.320 is amended to read:

5 AAC 15.320. WEEKLY FISHING PERIODS. (a) The Chignik Bay and Central Districts will extend to commercial salmon fishing from 5:30 p.m. Sunday, July 16 until 5:30 p.m. Monday, July 17.

The Western and Perryville Districts will extend to commercial salmon fishing south of a line drawn from Cape Itki at 55°58'45" N. lat., 158°30' W. long., to Alexander Point at 55°47'22" N. lat., 159°24'34" W. long., from 12:00 a.m. Monday, July 17 until 11:59 p.m. Monday, July 17.

5 AAC 15.350. CLOSED WATERS (1) and (9) are amended to read:

5 AAC 15.350. CLOSED WATERS. Salmon may not be taken in the following waters.

(1) All waters upstream from a line drawn between markers from Mensis Point at approximately 56°16'09" N. lat., 158°38'06" W. long., to the opposite shore at approximately 56°16'06" N. lat., 158°38'06" W. long..

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(9) In Kujulik Bay of the Central District closed waters include all waters northeast of a line in Kujulik Bay from Brandel Point on Cape Kumlik at 56°36'32" N. lat., 157°40'25" W. long., to the furthest northeast point on Cape Kumlium at 56°33'36" N. lat., 157°49'06" W. long..

JUSTIFICATION:

A fishery extension is warranted because sockeye escapement, 133,348 as of 9:00 a.m. July 16, is anticipated to surpass the July 21 escapement goal of 125,000 - 135,000 by today. Weak chum escapements in outside areas has lead to restrictions in districts outside of the Chignik Bay District. The Eastern District remains closed because the department shall close the Eastern District on July 15 to allow evaluation of the strength of the pink and chum salmon runs as described in the Eastern District Salmon Management Plan 5AAC 15.360.

EMERGENCY ORDER NO. 4-F-L-16-95

Issued at: Chignik, AK.,
7:00 a.m. July 19, 1995

EFFECTIVE DATE: 9:30 a.m.
Thursday, July 20, 1995

Expiration Date: 9:30 a.m.
Saturday, July 22, unless
superseded by subsequent
emergency order.

EXPLANATION:

The Chignik Bay, Central, Western, and Perryville Districts of the Chignik Management Area will open to commercial salmon fishing at 9:30 a.m. Thursday, July 20 for 48 hours until 9:30 a.m. Saturday, July 22. The Eastern District will remain closed.

Fishing will be allowed up to the regulatory markers at Mensis Point. Openings in the Central District will include all waters south of a line in Kujulik Bay from Brandel Point on Cape Kumlik to the furthest northeast point on Cape Kumlium. Open waters in the Perryville and Western Districts will include all the waters south of a line from Cape Itki to Alexander Point. Markers in Ivanof Bay will be the Road Island Markers.

REGULATION:

5 AAC 15.320 is amended to read:

5 AAC 15.320. WEEKLY FISHING PERIODS. (a) The Chignik Bay and Central Districts will open to commercial salmon fishing from 9:30 a.m. Thursday, July 20 until 9:30 a.m. Saturday, July 22.

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The Western and Perryville Districts will open to commercial salmon fishing south of a line drawn from Cape Itki at 55°58'45" N. lat., 158°30' W. long to Alexander Point at 55°47'22" N. lat., 159°24'34" W. long at 9:30 a.m. Thursday, July 20 for 48 hours until 9:30 p.m. Saturday, July 22.

5 AAC 15.350 (1) and (9) are amended to read:

5 AAC 15.350. CLOSED WATERS. Salmon may not be taken in the following waters.

(1) All waters upstream from a line drawn between markers from Mensis Point at approximately 56°16'09" N. lat., 158°38'06" W. long., to the opposite shore at approximately 56°16'06" N. lat., 158°38'06" W. long..

(9) In Kujulik Bay of the Central District closed waters include all waters northeast of a line in Kujulik Bay from Brandel Point on Cape Kumlik at 56°36'32" N. lat., 157°40'25" W. long. to the furthest northeast point on Cape Kumlium at 56°33'36" N. lat., 157°49'06" W. long..

JUSTIFICATION:

A fishery is warranted because sockeye escapement, 150,000 as of 7:00 p.m. July 19, is anticipated to surpass the July 23 escapement goal of 140,000 - 160,000 based on expected escapement for July 19. Weak chum escapements in outside areas has lead to restrictions in districts outside of the Chignik Bay District. The Eastern District remains closed because the department shall close the Eastern District on July 15 to allow evaluation of the strength of the pink and chum salmon runs as described in the Eastern District Salmon Management Plan 5AAC 15.360.

EMERGENCY ORDER NO. 4-F-L-17-95

Issued at: Chignik, AK,
6:00 p.m. July 21, 1995

EFFECTIVE DATE: 9:30 a.m.
Saturday, July 22, 1995

Expiration Date: 9:30 a.m.
Monday, July 24, unless
superseded by subsequent
emergency order.

EXPLANATION:

The Chignik Bay and Central Districts of the Chignik Management Area will extend to commercial salmon fishing at 9:30 a.m. Saturday, July 22 for 48 hours until 9:30 a.m. Monday, July 24. The Western and Perryville Districts of the Chignik Management Area will close to commercial salmon fishing as scheduled at 9:30 a.m. Saturday, July 22. The Eastern District will remain closed.

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Fishing will be allowed up to the regulatory markers at Mensis Point. Open waters in the Central District will be to the regular stream terminus markers except in Kujulik Bay: open waters will be south of a line drawn from Brandel Point on Cape Kumlik to the furthest northeast point on Cape Kumlium.

REGULATION:

5 AAC 15.320 is amended to read:

5 AAC 15.320. WEEKLY FISHING PERIODS. (a) The Chignik Bay and Central Districts will extend to commercial salmon fishing from 9:30 a.m. Saturday, July 22 until 9:30 a.m Monday, July 24.

5 AAC 15.350 (1) (9) is amended to read:

5 AAC 15.320. CLOSED WATERS. Salmon may not be taken in the following waters.

(1) All waters upstream from a line drawn between markers from Mensis Point at approximately 56°16'09" N. lat., 158°38'06" W. long., to the opposite shore at approximately 56°16'06" N. lat., 158°38'06" W. long..

(9) In Kujulik Bay of the Central District closed waters include all waters northeast of a line in Kujulik Bay from Brandel Point on Cape Kumlik at 56°36'32" N. lat., 157°40'25" W. long. to the furthest northeast point on Cape Kumlium at 56°33'36" N. lat., 157°49'06" W. long..

JUSTIFICATION:

A fishery is warranted because sockeye escapement, 178,000 as of 6:00 p.m. July 21, is anticipated to surpass the July 23 escapement goal of 170,000 - 180,000 by today. Weak chum escapements in outside areas has lead to restrictions in districts outside of the Chignik Bay District. The Eastern District remains closed because the department shall close the Eastern District on July 15 to allow evaluation of the strength of the pink and chum salmon runs as described in the Eastern District Salmon Management Plan 5AAC 15.360.

EMERGENCY ORDER NO. 4-F-L-18-95

Issued at: Chignik, AK,
11:00 a.m. July 23, 1995

EFFECTIVE DATE: 9:30 a.m.
Monday, July 24, 1995

Expiration Date: 3:30 p.m., Tuesday,
July 25, unless superseded by subsequent
emergency order.

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EXPLANATION:

The Chignik Bay and Central Districts of the Chignik Management Area will extend to commercial salmon fishing at 9:30 a.m. Monday, July 24 for 30 hours until 3:30 p.m. Tuesday, July 25. This will be the last extension for this fishing period. The Western, Perryville, and Eastern Districts will remain closed.

Fishing will be allowed up to the regulatory markers at Mensis Point. Open waters in the Central District will be to the regular stream terminus markers except in Kujulik Bay: open waters will be south of a line drawn from Brandel Point on Cape Kumlik to the furthest northeast point on Cape Kumlium.

REGULATION:

5 AAC 15.320 is amended to read:

5 AAC 15.320. WEEKLY FISHING PERIODS. (a) The Chignik Bay and Central Districts will extend to commercial salmon fishing from 9:30 a.m. Monday, July 24 until 3:30 p.m. Monday, July 25.

5 AAC 15.350 (1) (9) is amended to read:

5 AAC 15.350. CLOSED WATERS. Salmon may not be taken in the following waters.

(1) All waters upstream from a line drawn between markers from Mensis Point at approximately 56°16'09" N. lat., 158°38'06" W. long., to the opposite shore at approximately 56°16'06" N. lat., 158°38'06" W. long..

(9) In Kujulik Bay of the Central District, closed waters include all waters all waters northeast of a line in Kujulik Bay from Brandel Point on Cape Kumlik at 56°36'32" N. lat., 157°40'25" W. long., to the furthest northeast point on Cape Kumlium at 56°33'36" N. lat., 157°49'06" W. long..

JUSTIFICATION:

A fishery extension is warranted because sockeye escapement, 180,000 as of 11:00 a.m. July 23, is anticipated to surpass the July 23 escapement goal of 170,000 - 180,000 by today. After this opening, an area wide closure is deemed necessary to reach the sockeye escapement goal of 200,000 by July 31. Weak chum escapements in outside areas has lead to restrictions in districts

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outside of the Chignik Bay District. The Eastern District remains closed because the department shall close the Eastern District on July 15 to allow evaluation of the strength of the pink and chum salmon runs as described in the Eastern District Salmon Management Plan 5AAC 15.360.

EMERGENCY ORDER NO. 4-F-L-19-95

Issued at: Chignik, AK,
7:00 a.m. July 27, 1995

EFFECTIVE DATE: 5:00 p.m.
Thursday, July 27, 1995

Expiration Date: 11:59 p.m.
Saturday, July 29, unless
superseded by subsequent
emergency order.

EXPLANATION:

The Chignik Bay and Central Districts of the Chignik Management Area will open to commercial salmon fishing at 5:00 p.m. Thursday, July 27 for 48 hours until 5:00 p.m. Saturday, July 29. The Western and Perryville Districts of the Chignik Management Area will open to commercial salmon fishing for 48 hours starting at 12:01 a.m. Friday, July 28 until 11:59 p.m. Saturday, July 29. The Eastern District will remain closed.

Fishing will be allowed up to the regulatory markers at Mensis Point. Open waters in the Central District will be to the regular stream terminus markers except in Kujulik Bay: open waters will be south of a line drawn from Brandel Point on Cape Kumlik to the furthest northeast point on Cape Kumlium. Open waters in the Perryville and Western Districts will include all the waters south of a line from Cape Itki to Alexander Point. Markers in Ivanof Bay will be the Road Island Markers.

REGULATION:

5 AAC 15.320 is amended to read:

5 AAC 15.320. WEEKLY FISHING PERIODS. (a) The Chignik Bay and Central Districts will open to commercial salmon fishing from 5:00 p.m. Thursday, July 27 until 5:00 p.m. Saturday, July 29.

The Western and Perryville Districts will open to commercial salmon fishing southeast a line drawn from Cape Itki at 55°58'45" N. lat., 158°30' W. long to Alexander Point at 55°47'22" N. lat., 159°24'34" W. long., from 12:01 a.m. Friday, July 28 until 11:59 p.m. Saturday, July 29.

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5 AAC 15.350 (1) (9) is amended to read:

5 AAC 15.350. CLOSED WATERS. Salmon may not be taken in the following waters.

(1) All waters upstream from a line drawn between markers from Mensis Point at approximately 56°16'09" N. lat., 158°38'06" W. long., to the opposite shore at approximately 56°16'06" N. lat., 158°38'06" W. long..

(9) In Kujulik Bay of the Central District closed waters include all waters northeast of a line in Kujulik Bay from Brandel Point on Cape Kumlik at 56°36'32" N. lat., 157°40'25" W. long. to the furthest northeast point on Cape Kumlium at 56°33'36" N. lat., 157°49'06" W. long..

JUSTIFICATION:

A fishery is warranted because sockeye escapement, 191,928 as of 7:00 a.m. July 27, is anticipated to surpass the July 31 escapement goal of 200,000 by today. Weak chum escapements in outside areas has lead to restrictions in districts outside of the Chignik Bay District. The Eastern District remains closed because the department shall close the Eastern District on July 15 to allow evaluation of the strength of the pink and chum salmon runs as described in the Eastern District Salmon Management Plan 5AAC 15.360.

EMERGENCY ORDER NO. 4-F-L-20-95

Issued at: Chignik, AK.,
8:00 a.m. July 29, 1995

EFFECTIVE DATE: 5:00 p.m.
Saturday, July 29, 1995

Expiration Date: 11:59 p.m.
Monday, July 31, unless
superseded by subsequent
emergency order.

EXPLANATION:

The Chignik Bay and Central Districts of the Chignik Management Area will extend to commercial salmon fishing at 5:00 p.m. Saturday, July 29 for 48 hours until 5:00 p.m. Monday, July 31. The Western and Perryville Districts of the Chignik Management Area will extend and the Eastern District will open to commercial salmon fishing for 48 hours starting at 12:00 a.m. Sunday, July 30 until 11:59 p.m. Monday, July 31. Aerial surveys will continue to be flown during this opening and data will be evaluated for future possible extensions.

Fishing will be allowed up to the regulatory markers at Mensis Point. Open waters in the Central District will be to the regular stream terminus markers except in Kujulik Bay: open waters will be

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south of a line drawn from Brandel Point on Cape Kumlik to the furthest northeast point on Cape Kumlium. Open waters in the Perryville and Western Districts will include all waters south of a line drawn from Cape Itki to Alexander Point. Markers in Ivanof Bay will be the Road Island Markers. Open waters in the Eastern District will be south of a line that runs from cape to cape from Cape Ayutka to Cape Providence. The Agripina section of the of the Eastern District will remain closed.

REGULATION:

5 AAC 15.320 is amended to read:

5 AAC 15.320. WEEKLY FISHING PERIODS. (a) The Chignik Bay and Central Districts will extend to commercial salmon fishing from 5:00 p.m. Saturday, July 29 until 5:00 p.m Monday, July 31.

The Western and Perryville Districts will extend to commercial salmon fishing from 12:00 a.m. Sunday, July 30 until 11:59 p.m. Monday, July 31, south of a line drawn from Cape Itki at long., 55°58'45" N. lat., 158°30' W. long., to Alexander Point at 55°47'22" N. lat., 159°24'34" W.

The Eastern District will open to commercial fishing from 12:00 a.m. Sunday, July 30 until 11:59 p.m. Monday, July 31, south of a line drawn from markers that are 500 yds from the mouth of Aniakchak Lagoon to Cape Ayukta at 56°46'01" N. lat., 157°25'00" W. long., to the south side of Cape Kunmik at 56°48'45" N. lat., 157°13'45" W. long., continuing from the north side of Cape kunmik at 56°48'45" N. lat., 157°08'35" W. long to Cape Providence at 56°59'30" N. lat., 156°35'57" W. long..

5 AAC 15.350 (1) and (9) are amended to read:

5 AAC 15.320. CLOSED WATERS. Salmon may not be taken in the following waters.

(1) All waters upstream from a line drawn between markers from Mensis Point at approximately 56°16'09" N. lat., 158°38'06" W. long., to the opposite shore at approximately 56°16'06" N. lat., 158°38'06" W. long..

(9) In Kujulik Bay of the Central District closed waters include all waters northeast of a line in Kujulik Bay from Brandel Point on Cape Kumlik at 56°36'32" N. lat., 157°40'25" W. long. to the furthest northeast point on Cape Kumlium at 56°33'36" N. lat., 157°49'06" W. long..

JUSTIFICATION:

A fishery extension is warranted because sockeye escapement, 219,036 as of 8:00 a.m. July 29, has surpassed the July 31 escapement goal of 200,000. Stronger pink escapements than normally seen

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for this time of year in the Western and Perryville Districts warrants outside openings, but weak chum escapements in outside areas has lead to restrictions outside of the Chignik Bay District.

EMERGENCY ORDER NO. 4-F-L-21-95

Issued at: Chignik, AK,
11:59 a.m. July 31, 1995

EFFECTIVE DATE: 5:00 p.m.
Monday, July 31, 1995

Expiration Date: 11:59 p.m.
Wednesday, August 2, unless
superseded by subsequent
emergency order.

EXPLANATION:

The Chignik Bay and Central Districts of the Chignik Management Area will extend to commercial salmon fishing at 5:00 p.m. Monday, July 31 for 48 hours until 5:00 p.m. Wednesday, August 2. The Eastern, Western, and Perryville Districts of the Chignik Management Area will extend to commercial salmon fishing for 48 hours starting at 12:00 a.m. Tuesday, August 1 until 11:59 p.m. Wednesday, August 2. Aerial surveys will continue to be flown during this opening and data will be evaluated for future possible extensions.

Fishing will be allowed up to the regulatory markers at Mensis Point. Open waters in the Central District will be to the regular stream terminus markers except in Kujulik Bay: open waters will be south of a line drawn from Brandel Point on Cape Kumlik to the furthest northeast point on Cape Kumlium. Open waters in the Perryville and Western Districts will include all waters south of a line drawn from Cape Itki to Alexander Point. Markers in Ivanof Bay will be the Road Island Markers. Open waters in the Eastern District will be south of a line that runs from cape to cape from Cape Ayutka to Cape Providence. The Agripina section of the of the Eastern District will remain closed.

REGULATION:

5 AAC 15.320 is amended to read:

5 AAC 15.320. WEEKLY FISHING PERIODS. (a) The Chignik Bay and Central Districts will extend to commercial salmon fishing from 5:00 p.m. Monday, July 31 until 5:00 p.m. Wednesday, August 2.

The Western and Perryville Districts will extend to commercial salmon fishing south of a line drawn from Cape Itki at 55°58'45" N. lat., 158°30' W. long., to Alexander Point at 55°47'22" N. lat., 159°24'34" W. long., from 12:00 a.m. Tuesday, August 1 until 11:59 p.m. Wednesday, August 2.

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The Eastern District will extend to commercial fishing south of a line drawn from markers that are 500 yds from the mouth of Aniakchak Lagoon to Cape Ayukta at 56°46'01" N. lat., 157°25'00" W. long. to the south side of Cape Kunmik at 56°48'45" N. lat, 157°13'45" W. long., and continuing from the north side of Cape kunmik at 56°48'45" N. lat, 157°08'35" W. long. to Cape Providence at 56°59'30" N. lat., 156°35'57" W. long., from 12:00 a.m. Tuesday, August 1 until 11:59 p.m. Wednesday, August 2.

5 AAC 15.350 (1) and (9) are amended to read:

5 AAC 15.350. CLOSED WATERS. Salmon may not be taken in the following waters.

(1) All waters upstream from a line drawn between markers from Mensis Point at approximately 56°16'09" N. lat., 158°38'06" W. long., to the opposite shore at approximately 56°16'06" N. lat., 158°38'06" W. long..

(9) In Kujulik Bay of the Central District closed waters include all waters northeast of a line in Kujulik Bay from Brandel Point on Cape Kumlik at 56°36'32" N. lat., 157°40'25" W. long. to the furthest northeast point on Cape Kumlium at 56°33'36" N. lat., 157°49'06" W. long..

JUSTIFICATION:

A fishery extension is warranted because sockeye escapement, 221,483 as of 8:00 a.m. July 31, is anticipated to surpass the July 31 escapement goal of 200,000. Stronger pink escapements than normally seen for this time of year in the Western and Perryville Districts warrants an extension in outside districts, but weak chum escapements in outside areas has lead to restrictions in districts outside of the Chignik Bay District. Although escapement in the Eastern District appears to be a little weak for this time of the season, an extension on the capes may encourage fishing where there has been very little effort and the catch rates could give an early indication of the pink run strength.

EMERGENCY ORDER NO. 4-F-L-22-95

Issued at: Chignik, AK.,
9:00 a.m. August 3, 1995

EFFECTIVE DATE: 9:00 a.m.
Friday, August 4, 1995

Expiration Date: 9:00 a.m.
Sunday, August 6, unless
superseded by subsequent
emergency order.

EXPLANATION:

The Chignik Bay, Central, Eastern, Western, and Perryville Districts of the Chignik Management Area will open to commercial salmon fishing at 9:00 a.m. Friday, August 4 for 48 hours until 9:00

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a.m. Sunday, August 6. The Chignik Bay fishery will be opened by flare and fishermen are encouraged to monitor VHF channel 6 for the final fishery countdown. Aerial surveys will continue to be flown during this opening and data will be evaluated for future possible extensions.

Fishing will be allowed up to the regulatory markers at Mensis Point. Open waters in the Central District will be to the regular stream terminus markers except in Kujulik Bay: open waters will be south of a line drawn from Brandel Point on Cape Kumlik to the furthest northeast point on Cape Kumlium. Open waters in the Perryville and Western Districts will include all waters south of a line drawn from Cape Itki to Alexander Point. Markers in Ivanof Bay will be the Road Island Markers. Open waters in the Eastern District will be up to the regulatory stream terminus markers.

REGULATION:

5 AAC 15.320 is amended to read:

5 AAC 15.320. WEEKLY FISHING PERIODS. (a) The Chignik Bay, Central, Eastern, Western, and Perryville Districts will open to commercial salmon fishing from 9:00 a.m. Friday, August 4 until 9:00 a.m. Sunday, August 6.

The Western and Perryville Districts will open to commercial fishing south of a line from Cape Itki at 55°58'45" N. lat., 158°30' W. long., to Alexander Point at 55°47'22" N. lat., 159°24'34" W. long., from 9:00 a.m. Friday, August 4 until 9:00 a.m. Sunday, August 6.

5 AAC 15.350 (1) and (9) are amended to read:

5 AAC 15.350. CLOSED WATERS. Salmon may not be taken in the following waters.

(1) All waters upstream from a line drawn between markers from Mensis Point at approximately 56°16'09" N. lat., 158°38'06" W. long., to the opposite shore at approximately 56°16'06" N. lat., 158°38'06" W. long..

(9) In Kujulik Bay of the Central District closed waters include all waters northeast of a line in Kujulik Bay from Brandel Point on Cape Kumlik at 56°36'32" N. lat., 157°40'25" W. long. to the furthest northeast point on Cape Kumlium at 56°33'36" N. lat., 157°49'06" W. long..

JUSTIFICATION:

A fishery is warranted because sockeye escapement, 224,706 as of 8:00 a.m. August 3, is ahead of an escapement rate that will achieve 250,000 by August 31. Stronger pink escapements than normally seen for this time of year warrants an opening in outside districts, but chum in the bays and stream mouths need added protection.

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EMERGENCY ORDER NO. 4-F-L-23-95

Issued at: Chignik, AK.,
6:00 a.m. August 5, 1995

EFFECTIVE DATE: 9:00 a.m.
Sunday, August 6, 1995

Expiration Date: 3:00 p.m.
Thursday, August 10, unless
superseded by subsequent
emergency order.

EXPLANATION:

The Chignik Bay and Central Districts of the Chignik Management Area will extend to commercial salmon fishing at 9:00 a.m. Sunday, August 6 for 102 hours until 3:00 p.m. Thursday, August 10. The Eastern, Western and Perryville Districts will close to commercial fishing at 9:00 a.m. Sunday, August 6. The Eastern, Western, and Perryville Districts will reopen to commercial fishing at 5:00 a.m. Tuesday, August 8 for 58 hours and close at 3:00 p.m. Thursday, August 10. Aerial surveys will continue to be flown during this opening and data will be evaluated for future possible extensions.

Fishing will be allowed up to the regulatory markers at Mensis Point. Open waters in the Central District will be to the regular stream terminus markers except in Kujulik Bay: open waters will be south of a line drawn from Brandel Point on Cape Kumlik to the furthest northeast point on Cape Kumlium. Open waters in the Perryville and Western Districts will include all waters south of a line drawn from Cape Itki to Alexander Point. Markers in Ivanof Bay will be the Road Island Markers. Open waters in the Eastern District will be up to the regulatory stream terminus markers.

REGULATION:

5 AAC 15.320 is amended to read:

5 AAC 15.320. WEEKLY FISHING PERIODS. (a) The Chignik Bay and Central District, will extend to commercial salmon fishing from 9:00 a.m. Sunday, August 6 until 3:00 p.m. Thursday, August 10.

The Eastern District, will extend to commercial salmon fishing from 5:00 a.m. Tuesday, August 8 until 3:00 p.m. Thursday, August 10.

The Western and Perryville Districts will reopen to commercial salmon fishing In the Western and Perryville Districts closed waters include all waters south of a line from Cape Itki at 55°58'45" N. lat., 158°30' W. long to Coal Cape at 55°53'28" N. lat., 159°00'20" W. long. to Alexander Point at 55°47'22" N. lat., 159°24'34" W. long., from 5:00 a.m. Tuesday, August 8 until 3:00 p.m. Thursday, August 10.

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5 AAC 15.350 (1) and (9) are amended to read:

5 AAC 15.350. CLOSED WATERS. Salmon may not be taken in the following waters.

(1) All waters upstream from a line drawn between markers from Mensis Point at approximately 56°16'09" N. lat., 158°38'06" W. long., to the opposite shore at approximately 56°16'06" N. lat., 158°38'06" W. long..

(9) In Kujulik Bay of the Central District closed waters include all waters northeast of a line in Kujulik Bay from Brandel Point on Cape Kumlik at 56°36'32" N. lat., 157°40'25" W. long. to the furthest northeast point on Cape Kumlium at 56°33'36" N. lat., 157°49'06" W. long..

JUSTIFICATION:

A fishery extension is warranted in the Central and Chignik Bay Districts because sockeye escapement, 232,719 as of 6:00 a.m. August 5, is ahead of the escapement rate that will achieve 250,000 by August 31. Closure to the outside districts is necessary to allow for continued escapement of pink salmon to some of the smaller streams and cape restrictions allows added protection to chum salmon in the bays and stream mouths.

EMERGENCY ORDER NO. 4-F-L-24-95

Issued at: Chignik, AK,
12:01 p.m. August 9, 1995

EFFECTIVE DATE: 3:00 p.m.
Thursday, August 10, 1995

Expiration Date: 11:59 p.m.
Friday, August 11, unless
superseded by subsequent
emergency order.

EXPLANATION:

The Chignik Bay, Central, Eastern, Western, and Perryville Districts of the Chignik Management Area will extend to commercial salmon fishing at 3:00 p.m. Thursday, August 10 for 33 hours until 11:59 p.m. Friday, August 11. There will be no further extensions announced for this period.

Fishing will be allowed up to the regulatory markers at Mensis Point. Open waters in the Central District will be to the regular stream terminus markers except in Kujulik Bay: open waters will be south of a line drawn from Brandel Point on Cape Kumlik to the furthest northeast point on Cape Kumlium. Open waters in the Perryville and Western Districts will include all waters south of a line drawn from Cape Itki to Alexander Point. Markers in Ivanof Bay will be the Road Island Markers. Open waters in the Eastern District will be up to the regulatory stream terminus markers.

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REGULATION:

5 AAC 15.320 is amended to read:

5 AAC 15.320. WEEKLY FISHING PERIODS. (a) The Chignik Bay, Central, Eastern, Districts will extend to commercial salmon fishing from 3:00 p.m. Thursday, August 10 until 11:59 p.m Friday, August 11.

The Western and Perryville Districts will extend to commercial salmon fishing south of a line drawn from Cape Itki at 55°58'45" N. lat., 158°30' W. long., to Alexander Point at 55°47'22" N. lat., 159°24'34" W. long., from 3:00 p.m. Thursday, August 10 until 11:59 p.m Friday, August 11.

5 AAC 15.350 (1) and (9) are amended to read:

5 AAC 15.350. CLOSED WATERS. Salmon may not be taken in the following waters.

(1) All waters upstream from a line drawn between markers from Mensis Point at approximately 56°16'09" N. lat., 158°38'06" W. long., to the opposite shore at approximately 56°16'06" N. lat., 158°38'06" W. long..

(9) In Kujulik Bay of the Central District closed waters include all waters northeast of a line in Kujulik Bay from Brandel Point on Cape Kumlik at 56°36'32" N. lat., 157°40'25" W. long. to the furthest northeast point on Cape Kumlium at 56°33'36" N. lat., 157°49'06" W. long..

JUSTIFICATION:

A fishery extension is warranted in the Central and Chignik Bay Districts because sockeye escapement, 242,270 as of 11:59 a.m. August 9, is ahead of an escapement rate that will achieve 250,000 salmon by August 31. An extension to the Eastern, Western, and Perryville Districts is warranted because stream surveys have shown that many streams are near or have surpassed their pink salmon escapement goal.

EMERGENCY ORDER NO. 4-F-L-25-95

Issued at: Chignik, AK.,
12:01 p.m. August 11, 1995

EFFECTIVE DATE: 12:01 a.m.
Monday, August 14, 1995

Expiration Date: 11:59 p.m.
Thursday, August 17, unless
superseded by subsequent
emergency order.

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EXPLANATION:

The Chignik Bay, Central, Eastern, Western, and Perryville Districts of the Chignik Management Area will open to commercial salmon fishing at 12:01 a.m. Monday, August 14 for 96 hours until 11:59 p.m. Thursday, August 17.

Fishing will be allowed up to the regulatory markers at Mensis Point. Open waters in the Central District will be to the regular stream terminus markers except in Kujulik Bay: open waters will be south of a line drawn from Brandel Point on Cape Kumlik to the furthest northeast point on Cape Kumlium. Open waters in the Perryville and Western Districts will include all waters south of a line drawn from Cape Itki to Alexander Point. Markers in Ivanof Bay will be the Road Island Markers. Open waters in the Eastern District will be up to the regulatory stream terminus markers.

REGULATION:

5 AAC 15.320 is amended to read:

5 AAC 15.320. WEEKLY FISHING PERIODS. (a) The Chignik Bay, Central, Eastern, Districts will open to commercial salmon fishing from 12:01 a.m. Monday, August 14 until 11:59 p.m Thursday, August 17.

The Western and Perryville Districts will open to commercial salmon fishing south of a line drawn from Cape Itki at 55°58'45" N. lat., 158°30' W. long., to Alexander Point at 55°47'22" N. lat., 159°24'34" W. long., from 12:01 a.m. Monday, August 14 until 11:59 p.m Thursday, August 17.

5 AAC 15.350 (1) and (9) are amended to read:

5 AAC 15.350. CLOSED WATERS. Salmon may not be taken in the following waters.

(1) All waters upstream from a line drawn between markers from Mensis Point at approximately 56°16'09" N. lat., 158°38'06" W. long., to the opposite shore at approximately 56°16'06" N. lat., 158°38'06" W. long..

(9) In Kujulik Bay of the Central District closed waters include all waters northeast of a line in Kujulik Bay from Brandel Point on Cape Kumlik at 56°36'32" N. lat., 157°40'25" W. long. to the furthest northeast point on Cape Kumlium at 56°33'36" N. lat., 157°49'06" W. long..

JUSTIFICATION:

A fishery opening is warranted in the Chignik Bay and Central Districts because sockeye escapement, 242,270 as of 11:59 a.m. August 11, is ahead of the escapement rate that will achieve 250,000 salmon by August 31. An opening in the Eastern, Western, and Perryville Districts is

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warranted because stream surveys have shown that many streams are near or have surpassed their pink salmon escapement goal.

EMERGENCY ORDER NO. 4-F-L-26-95

Issued at: Chignik, AK.,
12:01 p.m. August 17, 1995

EFFECTIVE DATE: 12:01 a.m.
Friday, August 18, 1995

Expiration Date: 11:59 p.m.
Sunday, August 20, unless
superseded by subsequent
emergency order.

EXPLANATION:

The Chignik Bay, Central, Eastern, Western, and Perryville Districts of the Chignik Management Area will extend to commercial salmon fishing at 12:01 a.m. Friday, August 18 for 72 hours until 11:59 p.m. Sunday, August 20.

Fishing will be allowed up to the regulatory markers at Mensis Point. Open waters in the Central District will be to the regular stream terminus markers except in Kujulik Bay: open waters will be south of a line drawn from Brandel Point on Cape Kumlik to the furthest northeast point on Cape Kumlium. Open waters in the Perryville and Western Districts will include all waters south of a line drawn from Cape Itki to Alexander Point except in the Humpback Bay Section which will open up to the regular regulatory markers. Open waters in Ivanof Bay will be up the Road Island Markers. Open waters in the Eastern District will be up to the regulatory stream terminus markers.

REGULATION:

5 AAC 15.320 is amended to read:

5 AAC 15.320. WEEKLY FISHING PERIODS. (a) The Chignik Bay, Central, Eastern, Western, and Perryville Districts will extend to commercial salmon fishing from 12:01 a.m. Friday, August 18 until 11:59 p.m. Sunday, August 20.

The Western and Perryville Districts will extend to commercial salmon fishing from 12:01 a.m. Friday, August 18 until 11:59 p.m. Sunday, August 20 in waters south of a line drawn from Cape Itki at 55°58'45" N. lat., 158°30' W. long., to Alexander Point at 55°47'22" N. lat., 159°24'34" W. long., except in the Humpback Bay Section where open waters will be up to the regulatory stream markers. The Humpback Bay Section is defined as all waters including Paul and Jacob Islands, between Coal Point 55°51'31" N. lat., 159°18'50" W. long. to Alexander Point at 55°47'22" N. lat., 159°24'34" W. long..

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5 AAC 15.350 (1) and (9) are amended to read:

5 AAC 15.350. CLOSED WATERS. Salmon may not be taken in the following waters.

(1) All waters upstream from a line drawn between markers from Mensis Point at approximately 56°16'09" N. lat., 158°38'06" W. long., to the opposite shore at approximately 56°16'06" N. lat., 158°38'06" W. long..

(9) In Kujulik Bay of the Central District closed waters include all waters northeast of a line in Kujulik Bay from Brandel Point on Cape Kumlik at 56°36'32" N. lat., 157°40'25" W. long. to the furthest northeast point on Cape Kumlium at 56°33'36" N. lat., 157°49'06" W. long..

JUSTIFICATION:

A fishery extension is warranted in the Chignik Bay and Central Districts because sockeye escapement, 266,589 as of 11:59 a.m. August 17, has surpassed the escapement goal to Chignik Lake of 250,000 by August 31. An extension in the Eastern, Western, and Perryville Districts is warranted because stream surveys have shown that many streams are near or have surpassed their pink salmon escapement goal.

EMERGENCY ORDER NO. 4-F-L-27-95

Issued at: Chignik, AK.,
12:01 p.m. August 19, 1995

EFFECTIVE DATE: 12:00 a.m.
Monday, August 21, 1995

Expiration Date: 11:59 p.m.
Wednesday, August 23, or unless
superceded by subsequent
emergency order.

EXPLANATION:

The Chignik Bay, Central, Eastern, Western, and Perryville Districts of the Chignik Management Area will extend to commercial salmon fishing at 12:00 a.m. Monday, August 21 for 72 hours until 11:59 p.m. Wednesday, August 23.

Fishing will be allowed up to the regulatory markers at Mensis Point. Open waters in the Central District will be to the regular stream terminus markers except in Kujulik Bay: open waters will be south of a line drawn from Brandel Point on Cape Kumlik to the furthest northeast point on Cape Kumlium. Open waters in the Perryville and Western Districts will include all waters south of a line drawn from Cape Itki to Alexander Point except in the Humpback Bay Section which will open to the regular regulatory markers. Markers in Ivanof Bay will be the Road Island Markers. Open waters in the Eastern District will be up to the regulatory stream terminus markers.

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REGULATION:

5 AAC 15.320 is amended to read:

5 AAC 15.320. WEEKLY FISHING PERIODS. (a) The Chignik Bay, Central, Eastern, Western, and Perryville Districts will extend to commercial salmon fishing from 12:00 a.m. Monday, August 21 until 11:59 p.m. Wednesday, August 23.

The Western and Perryville Districts will extend to commercial salmon fishing from 12:00 a.m. Monday, August 21 until 11:59 p.m. Wednesday, August 23, south of a line from Cape Itki at 55°58'45" N. lat., 158°30' W. long to Alexander Point at 55°47'22" N. lat., 159°24'34" W. long. except in the Humpback Bay Section where open waters will be up to the regulatory stream terminus markers. The Humpback Bay Section includes Paul and Jacob Islands, and all waters between Coal Point 55°51'31" N.lat, 159°18'50" W. long. to Alexander Point at 55°47'22" N. lat., 159°24'34" W. long..

5 AAC 15.350 (1) and (9) are amended to read:

5 AAC 15.320. CLOSED WATERS. Salmon may not be taken in the following waters.

(1) All waters upstream from a line drawn between markers from Mensis Point at approximately 56°16'09" N. lat., 158°38'06" W. long., to the opposite shore at approximately 56°16'06" N. lat., 158°38'06" W. long..

(9) In Kujulik Bay of the Central District closed waters include all waters northeast of a line in Kujulik Bay from Brandel Point on Cape Kumlik at 56°36'32" N. lat., 157°40'25" W. long. to the furthest northeast point on Cape Kumlium at 56°33'36" N. lat., 157°49'06" W. long..

JUSTIFICATION:

A fishery extension is warranted in the Chignik Bay and Central Districts because sockeye escapement, 271,000 as of 12:01 a.m. August 19, has surpassed the escapement goal to Chignik Lake of 250,000 by August 31. An opening in the Eastern, Western, and Perryville Districts is warranted because stream surveys have shown that many streams are near or have surpassed their pink salmon escapement goal.

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EMERGENCY ORDER NO. 4-F-L-28-95

Issued at: Chignik, AK.,
12:01 p.m. August 22, 1995

EFFECTIVE DATE: 12:00 a.m.
Thursday, August 24, 1995

Expiration Date: 11:59 p.m.
Saturday, August 26, unless
superseded by subsequent
emergency order.

EXPLANATION:

The Chignik Bay, Central, Eastern, Western, and Perryville Districts of the Chignik Management Area will extend to commercial salmon fishing at 12:00 a.m. Thursday, August 24 for 72 hours until 11:59 p.m. Saturday, August 26.

Fishing will be allowed up to the regulatory markers at Mensis Point. Open waters in the Central District will be to the regular stream terminus markers except in Kujulik Bay: open waters will be south of a line drawn from Brandel Point on Cape Kumlik to the furthest northeast point on Cape Kumlium. Open waters in the Perryville and Western Districts will include all waters south of a line drawn from Alexander Point to Cape Itki except in the Humpback Bay Section which will open to the regular regulatory markers. Markers in Ivanof Bay will be the Road Island Markers. Open waters in the Eastern District will be up to the regulatory stream terminus markers.

REGULATION:

5 AAC 15.320 is amended to read:

5 AAC 15.320. WEEKLY FISHING PERIODS. (a) The Chignik Bay, Central, Eastern, Districts will extend to commercial salmon fishing from 12:00 a.m. Thursday, August 24 until 11:59 p.m. Saturday, August 26.

The Western and Perryville Districts closed waters include will extend to commercial salmon fishing from 12:00 p.m. Thursday, August 24 until 11:59 p.m. Saturday, August 26, south of a line from Cape Itki at 55°58'45" N. lat., 158°30' W. long to Alexander Point at 55°47'22" N. lat., 159°24'34" W. long., except in the Humpback Bay Section where open waters will be up to the regulatory stream terminus markers. The Humpback Bay section includes all waters from Paul and Jacob Islands, between Coal Point at 55°51'31" N. lat., 159°18'50" W. long. to Alexander Point at 55°47'22" N. lat., 159°24'34" W. long., where open waters will be up to the regular stream markers.

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5 AAC 15.350 (1) and (9) are amended to read:

5 AAC 15.350. CLOSED WATERS. Salmon may not be taken in the following waters.

(1) All waters upstream from a line drawn between markers from Mensis Point at approximately 56°16'09" N. lat., 158°38'06" W. long., to the opposite shore at approximately 56°16'06" N. lat., 158°38'06" W. long..

(9) In Kujulik Bay of the Central District closed waters include all waters northeast of a line in Kujulik Bay from Brandel Point on Cape Kumlik at 56°36'32" N. lat., 157°40'25" W. long. to the furthest northeast point on Cape Kumlium at 56°33'36" N. lat., 157°49'06" W. long..

JUSTIFICATION:

A fishery extension is warranted in the Chignik Bay and Central Districts because sockeye escapement, 275,990 as of 12:01 a.m. August 22, has surpassed the escapement goal to Chignik Lake of 250,000 by August 31. An opening in the Eastern, Western, and Perryville Districts is warranted because stream surveys have shown that many streams are near or have surpassed their pink salmon escapement goal.

EMERGENCY ORDER NO. 4-F-L-29-95

Issued at: Chignik, AK.,
10:00 a.m. August 26, 1995

EFFECTIVE DATE: 12:00 a.m.
Sunday, August 27, 1995

Expiration Date: 11:59 p.m.
Thursday, August 31, unless
superseded by subsequent
emergency order.

EXPLANATION:

The Chignik Bay, Central, Eastern, Western, and Perryville Districts of the Chignik Management Area will extend to commercial salmon fishing at 12:00 a.m. Sunday, August 27 for 120 hours until 11:59 p.m. Thursday, August 31.

Fishing will be allowed up to the regulatory markers at Mensis Point. Open waters in the Central District will include all waters south of a line in Kujulik Bay from Brandel Point on Cape Kumlik to the furthest northeast point on Cape Kumlium. Open waters in the Perryville and Western Districts will include all waters south of a line drawn from Cape Itki to Alexander Point except in in the Humpback Bay Section which will open to the regular regulatory markers. Markers in Ivanof

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Bay will be the Road Island Markers. Open waters in the Eastern District will be up to the regulatory stream terminus markers.

REGULATION:

5 AAC 15.320 is amended to read:

5 AAC 15.320. WEEKLY FISHING PERIODS. (a) The Chignik Bay, Central, Eastern, Districts will extend to commercial salmon fishing from 12:00 a.m. Sunday, August 27 until 11:59 p.m Thursday, August 31.

The Western and Perryville Districts will extend to commercial salmon fishing from 12:00 a.m. Sunday, August 27 until 11:59 p.m Thursday, August 31. Open waters include all waters south of a line from Cape Itki at 55°58'45" N. lat., 158°30' W. long., to Alexander Point at 55°47'22" N. lat., 159°24'34" W. long., except in the Humpback Bay Section where open waters will be to the regulatory stream terminus markers. The Humpback Bay Section includes Paul and Jacob Islands, between Coal Point at 55°51'31" N. lat, 159°18'50" W. long. and Alexander Point at 55°47'22" N. lat., 159°24'34" W. long..

5 AAC 15.350 (1) and (9) are amended to read:

5 AAC 15.350. CLOSED WATERS. Salmon may not be taken in the following waters.

(1) All waters upstream from a line drawn between markers from Mensis Point at approximately 56°16'09" N. lat., 158°38'06" W. long., to the opposite shore at approximately 56°16'06" N. lat., 158°38'06" W. long..

(9) In Kujulik Bay of the Central District closed waters include all waters northeast of a line in Kujulik Bay from Brandel Point on Cape Kumlik at 56°36'32" N. lat., 157°40'25" W. long. to the furthest northeast point on Cape Kumlium at 56°33'36" N. lat., 157°49'06" W. long..

JUSTIFICATION:

A fishery extension is warranted in the Chignik Bay and Central Districts because sockeye escapement, 281,556 as of 10:00 a.m. August 26, has surpassed the escapement goal to Chignik Lake of 250,000 by August 31. An opening in the Eastern, Western, and Perryville Districts is warranted because stream surveys have shown that many streams are near or have surpassed their pink salmon escapement goal.

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EMERGENCY ORDER NO. 4-F-L-30-95

Issued at: Chignik, AK.,
10:00 a.m. September 1, 1995

EFFECTIVE DATE: 12:01 a.m.
Sunday, September 3, 1995

Expiration Date: 11:59 p.m.
Thursday, September 7, unless
superseded by subsequent
emergency order.

EXPLANATION:

The Chignik Bay, Central, Eastern, Western, and Perryville Districts of the Chignik Management Area will open to commercial salmon fishing at 12:01 a.m. Sunday, September 3 for 120 hours until 11:59 p.m. Thursday, September 7.

Fishing will be allowed up to the regulatory markers at Mensis Point. Open waters in the Central District will be to the regular stream terminus markers except in Kujulik Bay: open waters will be south of a line drawn from Brandel Point on Cape Kumlik to the furthest northeast point on Cape Kumlium. Open waters in the Perryville and Western Districts will include all waters south of a line drawn from Cape Itki to Alexander Point except in the Humpback Bay Section which will open to the regular regulatory markers. Markers in Ivanof Bay will be the Road Island Markers. Open waters in the Eastern District will be up to the regulatory stream terminus markers.

REGULATION:

5 AAC 15.320 is amended to read:

5 AAC 15.320. WEEKLY FISHING PERIODS. (a) The Chignik Bay, Central, Eastern, Districts will open to commercial salmon fishing from 12:01 a.m. Sunday, September 3 until 11:59 p.m. Thursday, September 7.

The Western and Perryville Districts will open to commercial salmon fishing from 12:01 a.m. Sunday, September 3 until 11:59 p.m. Thursday, September 7, including all waters south of a line from Cape Itki at 55°58'45" N. lat., 158°30' W. long. to Alexander Point at 55°47'22" N. lat., 159°24'34" W. long., except in the Humpback Bay Section where all waters will open up to the regulatory stream terminus markers. The Humpback Bay Section includes Paul and Jacob Islands, between Coal Point at 55°51'31" N. lat, 159°18'50" W. long. and Alexander Point at 55°47'22" N. lat., 159°24'34" W. long..

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5 AAC 15.350 (1) and (9) are amended to read:

5 AAC 15.350. CLOSED WATERS. Salmon may not be taken in the following waters.

(1) All waters upstream from a line drawn between markers from Mensis Point at approximately 56°16'09" N. lat., 158°38'06" W. long., to the opposite shore at approximately 56°16'06" N. lat., 158°38'06" W. long..

(9) In Kujulik Bay of the Central District closed waters include all waters northeast of a line in Kujulik Bay from Brandel Point on Cape Kumlik at 56°36'32" N. lat., 157°40'25" W. long. to the furthest northeast point on Cape Kumlium at 56°33'36" N. lat., 157°49'06" W. long..

JUSTIFICATION:

A fishery opening is warranted in the Chignik Bay and Central Districts because sockeye escapement, 300,000 as of 10:00 a.m. September 1, has surpassed the escapement goal to Chignik Lake of 250,000 by August 31. An opening in the Eastern, Western, and Perryville Districts is warranted because stream surveys have shown that many streams are near or have surpassed their pink salmon escapement goal. Although increasing catches of coho salmon during the latter part of the previous fishing period indicated that the coho salmon run strength was adequate, the closure on September 1 and 2 should have allowed sufficient escapement throughout the Chignik Management area for this time period.

EMERGENCY ORDER NO. 4-F-L-31-95

Issued at: Chignik, AK,
2:00 p.m. September 7, 1995

EFFECTIVE DATE: 12:01 a.m.
Sunday, September 10, 1995

Expiration Date: 11:59 p.m.
Thursday, September 14, or until
superseded by subsequent
emergency order.

EXPLANATION:

The Chignik Bay, Central, Eastern, Western, and Perryville Districts of the Chignik Management Area will open to commercial salmon fishing at 12:01 a.m. Sunday, September 10 for 120 hours until 11:59 p.m. Thursday, September 14.

-Continued-

Fishing will be allowed up to the regulatory markers at Mensis Point. Open waters in the Central District will be to the regular stream terminus markers except in Kujulik Bay; open waters will be south of a line drawn from Brandel Point on Cape Kumlik to the furthest northeast point on Cape Kumlium. Open waters in the Perryville and Western Districts will include all waters south of a line drawn from Cape Itki to Alexander Point except in the Humpback Bay Section which will open to the regular regulatory markers. Markers in Ivanof Bay will be the Road Island Markers. Open waters in the Eastern District will be up to the regular regulatory markers.

REGULATION:

5 AAC 15.320 is amended to read:

5 AAC 15.320. WEEKLY FISHING PERIODS. (a) The Chignik Bay, Central, Eastern, Districts will open to commercial salmon fishing from 12:01 a.m. Sunday, September 10 until 11:59 p.m Thursday, September 14.

The Western and Perryville Districts will open to commercial salmon fishing from 12:01 a.m. Sunday, September 10 until 11:59 p.m Thursday, September 14 south of a line from Cape Itki at 55°58'45" N. lat., 158°30' W. long. to Alexander Point at 55°47'22" N. lat., 159°24'34" W. long., except Humpback Bay Section where open waters will be up to the regulatory stream terminus markers. The Humpback Bay Section includes all waters from Paul and Jacob Islands, between Coal Point at 55°51'31" N. lat, 159°18'50" W. long. and Alexander Point at 55°47'22" N. lat., 159°24'34" W. long..

5 AAC 15.350 (1) and (9) are amended to read:

5 AAC 15.320. CLOSED WATERS. Salmon may not be taken in the following waters.

(1) All waters upstream from a line drawn between markers from Mensis Point at approximately 56°16'09" N. lat., 158°38'06" W. long., to the opposite shore at approximately 56°16'06" N. lat., 158°38'06" W. long..

(9) In Kujulik Bay of the Central District closed waters include all waters northeast of a line in Kujulik Bay from Brandel Point on Cape Kumlik at 56°36'32" N. lat., 157°40'25" W. long. to the furthest northeast point on Cape Kumlium at 56°33'36" N. lat., 157°49'06" W. long..

JUSTIFICATION:

A fishery opening is warranted in the Chignik Bay and Central Districts because sockeye escapement, over 300,000 as of 10:00 a.m. September 1, has surpassed the escapement goal to Chignik Lake of 250,000 by August 31. An opening in the Eastern, Western, and Perryville Districts is warranted because stream surveys have shown that many streams are near or have

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surpassed their pink salmon escapement goal. Although increasing catches of coho salmon during the latter part of the previous fishing period indicated that the coho salmon run strength was slightly below average, the closure on September 8 and 9 should have allowed sufficient escapement throughout the Chignik Management area for this time period.

EMERGENCY ORDER NO. 4-F-L-32-95

Issued at: Chignik, AK.,
12:00 p.m. September 9, 1995

EFFECTIVE DATE: 12:01 a.m.
Sunday, September 10, 1995

Expiration Date: 11:59 p.m.
Thursday, September 14, unless
superseded by subsequent
emergency order.

EXPLANATION:

The Chignik Bay, Central, Eastern, Western, and Perryville Districts of the Chignik Management Area will open to commercial salmon fishing for 120 hours at 12:01 a.m. Sunday, September 10 for 120 hours until 11:59 p.m. Thursday, September 14.

Fishing will be allowed up to the regulatory markers at Mensis Point. Open waters in the Central District will be to the regular stream terminus markers except in Kujulik Bay: open waters will be south of a line drawn from Brandel Point on Cape Kumlik to the furthest northeast point on Cape Kumlium. Open waters in the Eastern, Western, and Perryville will be up to the regular regulatory stream terminus markers. Beginning at 12:00 a.m. Tuesday, September 12 some regulatory marker changes will occur, open waters in Kujulik Bay will include all waters in the northeast end of the bay. Open waters in Hook Bay will change shoreward of the usual markers to a line running from the spit northeast to a piling on the opposite shore. Markers in Ivanof Bay will be moved shoreward of the Road Island markers to a line running from the cannery dock piling eastward to the opposite shore.

REGULATION:

5 AAC 15.320 is amended to read:

5 AAC 15.320. WEEKLY FISHING PERIODS. (a) The Chignik Bay, Central, Eastern, Western, and Perryville Districts will open to commercial salmon fishing from 12:01 a.m. Sunday, September 10 until 11:59 p.m. Thursday, September 14.

-Continued-

5 AAC 15.350 (1) (9) (13) (16) are amended to read:

5 AAC 15.350. CLOSED WATERS. Salmon may not be taken in the following waters.

(1) All waters upstream from a line drawn between markers from Mensis Point at approximately 56°16'09" N. lat., 158°38'06" W. long., to the opposite shore at approximately 56°16'06" N. lat., 158°38'06" W. long..

(9) From from 12:01 September 10 to 11:59 p.m. September 11, In Kujulik Bay of the Central District closed waters include all waters northeast of a line in Kujulik Bay from Brandel Point on Cape Kumlik at 56°36'32" N. lat., 157°40'25" W. long. to the furthest northeast point on Cape Kumlium at 56°33'36" N. lat., 157°49'06" W. long..

From 12:00 a.m. September 12 to 11:59 p.m. September 14, Kujulik Bay: the southwest end of the bay south west of a line from 56°35'51" N. lat., 157°59' W. long. to the opposite shore at 56°34'30" N. lat., 157°57'30".

(13) From 12:00 a.m. September 12 to 11:59 p.m. September 14, Ivanof Bay: all waters northwest of a line drawn eastward from the outermost piling of the old cannery dock to the opposite shore at 55°52'28" N. lat., 159°28'18" W. long..

(16) From 12:00 a.m. September 12 to 11:59 p.m. September 14, Hook Bay: all waters northwest of a line that runs from the spit at 56°30'07" N. lat., 158°08'04" W. long. northeast to a piling on the opposite shore.

JUSTIFICATION:

A fishery opening is warranted in the Chignik Bay and Central Districts because sockeye escapement, over 300,000 as of 10:00 a.m. September 1, has surpassed the escapement goal to Chignik Lake of 250,000 by August 31. An opening in the Eastern, Western, and Perryville Districts is warranted because stream surveys have shown that many streams are near or have surpassed their pink salmon escapement goal. Although increasing catches of coho salmon during the last fishing period indicated that the coho salmon run strength was slightly below average, the closure on September 8 and 9 should have allowed sufficient escapement throughout the Chignik Management area for this time period. Regulatory markers have been moved shoreward after September 12 to allow harvest of Coho salmon in Ivanof, Hook, and Kujulik Bay.

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EMERGENCY ORDER NO. 4-F-L-33-95

Issued at: Chignik, AK.
2:00 p.m. September 13, 1995

EFFECTIVE DATE: 12:00 a.m.
Thursday, September 14, 1995

Expiration Date: 11:59 p.m.
Tuesday, October 31, unless
superseded by subsequent
emergency order.

EXPLANATION:

The Chignik Bay, Central, Eastern, Western, and Perryville Districts of the Chignik Management Area will extend to commercial salmon fishing for 48 hours at 12:00 a.m. Thursday, September 14 for 48 hours until 11:59 p.m. Saturday, September 16. The schedule for further openings after September 16 until October 31 will be for 48 hours starting at 12:01 a.m. Tuesdays and ending at 11:59 p.m. Wednesdays.

Fishing will be allowed up to the regulatory markers at Mensis Point. Open waters in the Central District will be to the regular stream terminus markers except in Kujulik Bay and Hook Bay. Open waters in Kujulik Bay will be all waters in the northeast end of the bay. Open waters in Hook Bay will change shoreward of the usual markers to a line running from the spit northeast to a piling on the opposite shore. Open waters in the Perryville and Western Districts will be the regular regulatory markers except in Ivanof Bay where the markers will be moved shoreward from the Road Island markers to a line running from the from the old cannery dock piling southeast to the opposite shore. Open waters in the Eastern District will be up to the regular stream terminus regulatory markers.

REGULATION:

5 AAC 15.310 is amended to read:

5 ACC 15.310. FISHING SEASONS. (a) In the Chignik Bay, Central, Eastern, Western, and Perryville District, salmon may be taken only from June 1 through October 31.

5 AAC 15.320 is amended to read:

5 AAC 15.320. WEEKLY FISHING PERIODS. (a) The Chignik Bay, Central, Eastern, Western, and Perryville Districts will extend to commercial salmon fishing from 12:00 a.m. Thursday, September 14 until 11:59 p.m. Saturday, September 16.

Weekly Fishing Periods from September 17 through October 31 will be 48 hours per week from 12:01 a.m. Tuesday until 11:59 p.m. Wednesday.

-Continued-

5 AAC 15.350 (1) (9) (13) (16) are amended to read:

5 AAC 15.350. CLOSED WATERS. Salmon may not be taken in the following waters.

(1) All waters upstream from a line drawn between markers from Mensis Point at approximately 56°16'09" N. lat., 158°38'06" W. long., to the opposite shore at approximately 56°16'06" N. lat., 158°38'06" W. long..

(9) kujulik Bay: the southwest end of the bay south west of a line from 56°35'51" N. lat., 157°59' W. long. to the opposite shore at 56°34'30" N. lat., 157°57'30" W. long.

(13) Ivanof Bay Section: all waters northeast of a line that runs from the old cannery dock piling northeast to a shore point at 55°52'28" N. lat., 159°28'18" W. long.

(16) Hook Bay: all waters northwest of a line that runs from the spit at 56°30'07" N. lat., 158°08'04" W. long. northeast to a piling on the opposite shore.

JUSTIFICATION:

A fishery extension is warranted in the Chignik Bay and Central Districts because sockeye escapement, over 300,000 as of 10:00 a.m. September 1, has surpassed the escapement goal to Chignik Lake of 250,000 by August 31 and catches remain high for this time of the season. An opening in the Eastern, Western, and Perryville Districts is warranted because stream surveys have shown that many streams are near or have surpassed their pink salmon escapement goal. Although increasing catches of coho salmon during the last fishing period indicated that the coho salmon run strength was slightly below average, the closure on September 8 and 9 should have allowed sufficient escapement throughout the Chignik Management area for this time period.

ARTICLE 9. - STATISTICAL AREA L

CHIGNIK AREA.

5 AAC 27.550. DESCRIPTION OF AREA. Statistical Area L includes all waters on the south side of the Alaska Peninsula enclosed by 156°20'13" W. long. (the longitude of the southern entrance to Imuya Bay near Kilokak Rocks) and a line extending southeast (135°) from the southernmost tip of Kupreanof Point.

5 AAC 27.555. DESCRIPTION OF DISTRICTS. Districts are as described in 5 AAC 15.200.

5 AAC 27.560. FISHING SEASONS AND WEEKLY FISHING PERIODS. (a) Herring may be taken from April 15 through June 30 (sac roe season) and from August 15 through February 28 (food and bait season).

(b) Herring may be taken only during periods established by emergency order.

5 AAC 27.565. GEAR. (a) Herring may be taken only by purse seines.

(b) A herring fishing vessel may operate or assist in operating only one legal limit of herring fishing gear in the aggregate.

(c) Unhung gear sufficient for mending purposes may be carried aboard fishing vessels.

(d) Herring fishing nets shall be measured, either wet or dry, by determining the maximum length of cork line when the net is fully extended with traction applied at one end only.

(e) The interim-use or entry permit holder is responsible for operation of the net.

(f) The use of leads with any net gear used for commercial herring fishing is prohibited during the herring sac roe season.

5 AAC 27.575. SEINE SPECIFICATIONS AND OPERATIONS. No purse seine may be more than 1,000 meshes in depth or more than 100 fathoms in length.

5 AAC 27.580. WATERS CLOSED TO HERRING FISHING. During the period June 12 through October 31, herring may not be taken in waters described in 5 AAC 15.350 and 5 AAC 39.290.

5 AAC 27.590. BUYER AND TENDER REPORTING REQUIREMENTS. In addition to the requirements of 5 AAC 39.130(f) each tender operator and each buyer or his agents shall report in person to and register with a local representative of the department upon arrival in the statistical area before commencing operations and before changing location of the operation. Each buyer shall:

(1) identify all vessels to be employed in transporting or processing herring and shall register such vessels with a local representative of the department located in the statistical area before transporting or processing herring;

(2) make daily reports of all herring purchased from fishermen, and other processing records as specified by a local representative of the department, and

(3) submit fish tickets before departure from the area and no later than 10 days after termination of buying operations in the area, or as otherwise specified by a local representative of the department.

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CHIGNIK AREA

(d) The Perryville District includes all waters between Coal Cape at 55°53'28" N.lat., 159°00'20" W.long. and Kupreanof Point at 55°33'55" N.lat., 159°35'50" W.long.

(1) Perryville Section: all waters including Chiachi Islands, between Coal Cape at 55°53'28" N.lat., 159°00'20" W.long., and Coal Point at 55°51'31" N.lat., 159°18'50" W.long.;

(2) Humpback Bay Section: all waters including Paul and Jacob islands, between Coal Point at 55°51'34" N.lat., 159°18'50" W.long., and Alexander Point at 55°47'22" N.lat., 159°24'34" W.long.;

(3) Ivanof Bay Section: all waters between Alexander Point at 55°47'22" N.lat., 159°24'34" W.long., and Kupreanof Point at 55°33'55" N.lat., 159°35'50" W.long.

(e) The Central District includes all waters, excluding the waters of the Chignik Bay district between Jack Point (56°17'32" N.lat., 158°11'56" W.long.), and the southernmost marker 500 yards from the mouth of Aniakchak Lagoon.

(1) Cape Kumlik Section: all waters, including Sutwik Island, between the latitude of the southernmost marker 500 yards from the mouth of Aniakchak Lagoon and 157°40'25" W.long., on the southwest side of Cape Kumlik;

(2) Kujulik Section: all waters between a point on the southwest side of Cape Kumlik at 56°36'32" N.lat., 157°40'25" W.long., and a point on Cape Kumliun at 56°28'34" N.lat., 157°51'26" W.long.;

(3) Outer Chignik Bay Section: all waters including Nakchamik Island between a point on Cape Kumliun at 56°28'34" N.lat., 157°51'26" W.long., and Jack Point at 56°17'32" N.lat., 158°11'56" W.long., excluding the Chignik Bay district.

ARTICLE 3. - SALMON FISHERY

5 AAC 15.310. FISHING SEASONS (a) In the Chignik Bay District, salmon may be taken only from June 1 through October 31.

(b) The Perryville, Western, Central and Eastern Districts are opened by emergency order.

5 AAC 15.320. WEEKLY FISHING PERIODS. (a) Salmon fishing periods shall be established by emergency order.

5 AAC 15.330. GEAR (a) Salmon may be taken only by purse seine or hand purse seine.

5 AAC 15.332. SEINE SPECIFICATIONS AND OPERATION (a) In the Eastern, Central, Western and Perryville Districts, no purse seine less than 100 fathoms or more than 225 fathoms in length may be used.

(b) In the Eastern, Central, Western and Perryville Districts, hand purse seines may not be less than 100 fathoms or more than 225 fathoms in length.

(c) In the Chignik Bay District, purse seines and hand purse seines may not be less than 100 fathoms or more than 125 fathoms in length.

(d) No seine may be less than three fathoms in depth.

(e) No lead may be more than 75 fathoms in length. The aggregate length of seine and lead may not be more than 225 fathoms in the Eastern, Central, Western and Perryville Districts.

CHIGNIK AREA

(f) When a purse seine or hand purse seine is in the water for the purpose of taking fish, the seine shall be attached to the licensed vessel operating the gear.

5 AAC 15.350. CLOSED WATERS. Salmon may not be taken in the following waters:

(1) Chignik Lagoon

(A) southwest of a line from the tip of Hume Point to the north side of Chignik Island (56°17'25" N.lat., 158°35'30" W.long.);

(B) Mallard Duck Bay: southwest of a line from the tip of Green Point to Chignik Island (56°16'38" N.lat., 158°34'54" W.long.);

(2) Kilokak Rocks Bay: northwest of a line from the southern entrance of the bay at 57°09'50" N.lat., 156°20'40" W.long., then to the opposite shore 500 yards northeast of the mouth of Kilokak Rocks Creek at 57°10'07" N.lat., 156°20'40" W.long.;

(3) Agripina River: west of a line from 57°06'46" N.lat., 156°28' W.long., to 57°06'35" N.lat., 156°28'30" W.long.;

(4) Chiginagak Bay: north of a line from 57°00'33" N.lat., 156°45'38" W.long., to 57°01'48" N.lat., 156°41'51" W.long.;

(5) Nakalilok Lagoon: the lagoon and within 500 yards of the entrance;

(6) Yantarni Lagoon: the lagoon and within 500 yards of the entrance;

(7) Aniakchak River: northwest of a line from approximately 500 yards northeast of the mouth at 56°45'43" N.lat., 157°28'46" W.long., to a marker on the southern tip of the island directly off the mouth and then to approximately 1,000 yards southwest of the mouth at 56°45'20" N.lat., 157°31' W.long.;

(8) Aniakchak Lagoon: the lagoon and within 500 yards of the entrance;

(9) Kujulik Bay: the southwest end of the bay southwest of a line from 56°35'51" N. lat., 157°59' W. long., to the opposite shore at 56°34'30" N. lat., 157°57'30" W. long.;

(10) Portage Bay: west of a line from 56°11'40" N.lat., 158°33' W.long., to 56°10'38" N. lat., 158°33' W. long.;

(11) Ivan Bay: north of a line from the marker on the northwest shore 1,000 yards from the stream mouth to the marker on the southeast shore 750 yards from the stream mouth;

(12) Humpback Bay: within 1,000 yards of the terminus of Humpback Bay stream (275-502) at 55°52'30" N.lat., 159°20' W.long.;

(13) Ivanof Bay: all waters northwest of a line from a point on the northeast shore at 55°52'28" N. lat., 159°28'18" W. long. to a point on the north end of the spit at 55°51' N. lat., 159°30'54" W. long. (all waters northwest of Round Island are closed);

(14) Alfred Creek (271-104): before August 1, the 500 yard closure at the terminus does not apply; the 500 yard closure does apply from August 1 to the end of the salmon fishing season;

(15) Dago Frank Creek (271-105): before August 1, the 500 yard closure at the terminus does not apply; the 500 yard closure does apply from August 1 to the end of the salmon fishing season;

CHIGNIK AREA

(16) Hook Bay: northwest of a line from the tip of Hook Bay spit at 56°30'07" N.lat., 158°08'04" W.long., to a point on the north side of the bay at 56°31'07" N.lat., 158°07'32" W.long.

(17) Unnamed stream at 55°49'02" N.lat., 159°24'15" W.long.; the 500 yard closure at the terminus does not apply.

(18) Lake Bay: all waters southwest of a line drawn at the entrance to Lake Bay at 56°18'51" N. lat., 158°17'30" W. long. extending across the entrance to Lake Bay;

(19) Mud Bay: all waters southwest of a line from 56°19'28" N. lat., 158°25'12" W. long. extending across the entrance to Mud Bay.

5 AAC 15.355. SALMON PROCESSOR AND BUYER REPORTING REQUIREMENTS. The operator of a floating salmon processing vessel or tender, or a shorebased processing operation, and a company employing aircraft used for transporting salmon, shall report in person, or by radio or telephone, to a local representative of the department located in the management area of intended operation before the start of processing or buying operations. The report must include the location and the date of intended operation, and identify and describe each vessel or other method of transport employed in hauling or processing salmon.

5 AAC 15.360. EASTERN DISTRICT SALMON MANAGEMENT PLAN. (a) The department shall open and close the Eastern District for commercial salmon fishing concurrently with the Chignik Bay and Central Districts. The department may close the Eastern District for the period between the first (Black Lake) and second (Chignik Lake) sockeye salmon runs.

(b) The department shall close the Eastern District on July 15 to allow evaluation of the strength of the pink and chum salmon runs.

(c) The department shall close the Eastern district when it determines that the salmon being harvested in that district are from stocks that do not originate from spawning areas located in the Chignik Area.

CHIGNIK AREA

CHAPTER 15. - CHIGNIK AREA

ARTICLE 1. - DESCRIPTION OF AREA

5 AAC 15.001. APPLICATION OF THIS CHAPTER Requirements set forth in this chapter apply to commercial fishing only, unless otherwise specified. Subsistence fishing regulations affecting commercial fishing vessels or affecting any other commercial fishing activity are set forth in the subsistence fishing regulations in 5 AAC 01 and 5 AAC 02.

5 AAC 15.100. DESCRIPTION OF AREA The Chignik Area includes all waters of Alaska on the south side of the Alaska Peninsula enclosed by 156°20'13" W.long., (the longitude of the southern entrance to Imuya Bay near Kilokak Rocks) and a line extending 135° southeast from Kupreanof Point.

ARTICLE 2. - FISHING DISTRICTS

5 AAC 15.200. FISHING DISTRICTS. (a) The Eastern District includes all waters from the southernmost marker 500 yards from the mouth of Aniakchak Lagoon to the eastern boundary of the Chignik area

(1) Agripina Section: all waters between Kilokak Rocks at 57°11'22" N.lat., 156°20'13" W.long., and Cape Providence at 56°58'40" N.lat., 156°33'28" W.long.;

(2) Chiginagak Section: all waters between Cape Providence at 56°58'40" N.lat., 156°33'28" W.long., and Cape Kuyuyukak at 56°53'54" N.lat., 156°49'43" W.long.;

(3) Nakalilok-Yantarni Section: all waters between Cape Kuyuyukak at 56°53'54" N.lat., 156°49'43" W.long., and Cape Kunmik at 56°45'53" N.lat., 157°11'53" W.long.;

(4) Big River Section: all waters of Amber and Aniakchak Bays bounded by 157°11'53" W.long., and the latitude of the southernmost marker 500 yards from the mouth of Aniakchak Lagoon;

(b) The Chignik Bay District includes all waters of Chignik Bay and Lagoon west of a line from Jack Point at 56°17'32" N.lat., 158°11'56" W.long., to Neketa Creek at 56°24'10" N.lat., 158°27'37" W.long.

(c) The Western District includes all waters south and west of Jack point at 56°17'32" N.lat., 158°11'56" W.long., excluding the waters of Chignik Lagoon, to Coal Cape at 55°53'28" N.lat., 159°00'20" W.long.

(1) Castle Cape Section: all waters between Jack Point at 56°17'32" N.lat., 158°11'56" W.long., and Cape Ikti at 55°58'45" N.lat., 158°30' W.long.;

(2) Dorner Bay Section: all waters between Cape Ikti at 55°58'45" N.lat., 158°30' W.long., and a point on the west side of Dorner (Kuiukta) Bay's entrance at 55°57' N.lat., 158°40' W.long.;

(3) Mitrofanina Section: all waters, including Mitrofanina Island between a point on the west side of Dorner (Kuiukta) Bay's entrance at 55°57' N.lat., 158°40' W.long., and Stirni Point at 55°54'50" N.lat., 158°55' W.long.;

(4) Anchor Bay Section: all waters between Stirni Point at 55°54'50" N.lat., 158°55' W.long., and Coal Cape at 55°53'28" N.lat., 159°00'20" W.long.

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